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# **OLDS & WHIPPLE**

**INC.**  
**HARTFORD, CONN.**

## **FERTILIZERS SEEDS**

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**Agricultural Implements**

**1941**







**168 State Street, Hartford, Conn.**

Date \_\_\_\_\_ 1941 Ship Via ☐ Freight ☐ Express ☐ Mail ☐ Check ☐ Which ☐

Street or R. F. D. \_\_\_\_\_ County \_\_\_\_\_

Post Office \_\_\_\_\_ State \_\_\_\_\_

Express or Freight Office,  
if different from P. O. \_\_\_\_\_

AMOUNT } Money Order \$ \_\_\_\_\_ Stamps \$ \_\_\_\_\_ } Check here ☐  
ENCLOSED } Check \$ \_\_\_\_\_ Cash \$ \_\_\_\_\_ } if wanted  
shipped C. O. D.

OLDS & WHIPPLE, Inc., give no warranty, express, or implied, as to purity, description, quality, productiveness, or any other matter of any Seeds, Bulbs or Plants they send out, and will not be in any way responsible for the crop. When mentioned, purity and germination tests are for information only and without guarantee.

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**... SEEDS ...**

**FERTILIZERS and**

**AGRICULTURAL IMPLEMENTS**

**Catalog for 1941**



*All Prices Subject to Change Without Notice*

**OLDS & WHIPPLE, Inc.**

**FERTILIZER FACTORY:**  
**Tolland St., East Hartford, Conn.**

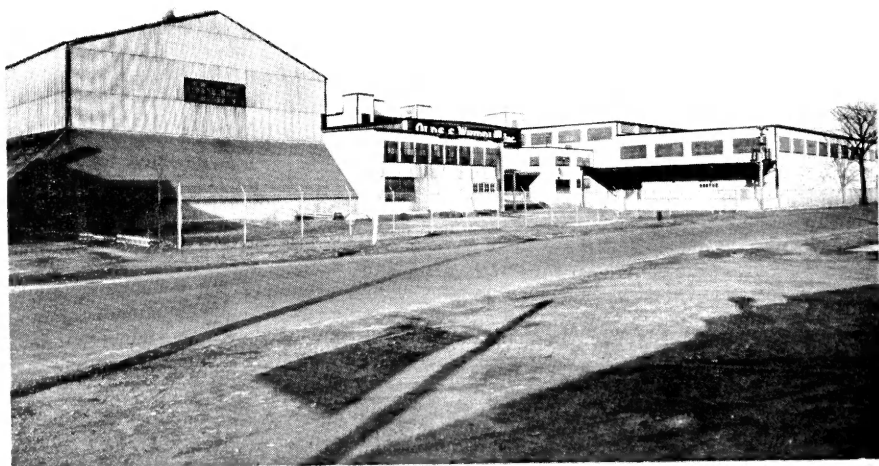
**MAIN OFFICE and IMPLEMENT WAREHOUSE:**  
**164-6-8 State St., Hartford, Conn.**

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Offices and  
Agricultural  
Warerooms at  
168 State Street,  
Hartford, Conn.



Fertilizer Factory  
located on  
Tolland Street,  
East Hartford,  
Conn.



**1877**

## *Foreword*

**1941**



We present herewith our Catalogue for 1941. Entering our 64th year in the Fertilizer and Farm Supply Business under the same management and at the same location is our record.

Every economy in manufacture and distribution, consistent with sound management has been practiced that we might be able to give our customers the best Fertilizers, Seeds and Farm Equipment at the lowest possible prices.

Some prices have advanced and it seems reasonable to expect further advances. We therefore urge our customers to place their orders early and accept early delivery.

We again wish to express our appreciation to our customers, old and new, for their patronage and will endeavor to so conduct our business that we may be worthy of their support in the future.

# OLDS & WHIPPLE, Inc.

## List of FERTILIZERS and RAW MATERIALS

For 1941

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### O. & W. SPECIAL FERTILIZERS

Complete Tobacco Fertilizer  
Blue Label Tobacco Fertilizer  
High Grade Tobacco Starter  
High Grade Tobacco Starter and  
Potash Compound  
Top Dressing and Grass Fertilizer  
Market Garden Fertilizer

High Grade Potato and Vegetable  
Fertilizer  
Potato and General Purpose Fertilizer  
Double Strength Fertilizer  
Corn Special Fertilizer  
Lawn Fertilizer

### WILCOX FORMULA

Corn Special Fertilizer  
Potato and General Purpose

Market Garden Fertilizer  
Top Dresser

High Grade Potato Fertilizer

### FERTILIZING MATERIALS

Swift Sure Phosphate  
C.S. Meal guaranteed analysis  
Cyanamid—Granular  
Castor Pomace guaranteed analysis  
Sterilized Ground Stems  
High Grade Muriate Potash  
High Grade Sulphate Potash  
Carbonate of Potash  
Urea (Uramon)  
Ammono Phos.  
Hydrated Lime

Ground Limestone  
Super Phosphate (acid phosphate)  
Sulphate of Ammonia  
Nitrate of Soda  
Sheep Manure  
Dry Ground Fish  
Tankage  
Steamed Bone  
Fine ground Nova Scotia Plaster  
Cotton Boll or Cotton Hull Ashes  
Chilean Potash Nitrate

We would call special attention to our market garden and potato fertilizer made with a large part of nitrogen derived from organic sources. A fertilizer made in this way costs more money but we believe the extra cost is justified by increasing yields. The final test of value of a fertilizer is not the price per ton but the crop produced.

We again urge our customers to order their fertilizer at once and allow us to deliver same at an early date and thus avoid the mad scramble that always comes late in the season. There is no good reason for delay.

### Our Special Mixtures for All Crops

The following pages give you a list of the special fertilizers which we manufacture at our own factory.

These special mixtures are from tested formulae, proved out by practical growing tests. They are finely ground, and mechanically, in such condition, as to render them readily available to the growing crops.

Their use will repay you. They produce the kind of crops that pay. Used and endorsed by best growers.

## Fertilizing Cigar Leaf Tobacco

For Bigger Yields and Better Burning Quality

A good cigar depends upon its burning quality and flavor for its reputation. Leaf tobacco for making a good cigar must be of the best quality, must hold fire well, not burn too fast or too slowly. It must not coal on the cigar and it must leave a clear white or light gray ash, not a muddy ash.

Cigar smokers everywhere are complaining about the quality of the cigar being made today. Manufacturers cannot make good cigars unless they get good tobacco, and that is where the grower comes in.

### LEAF WISE

No matter how old a man is, if he is wise, he can still acquire more wisdom. No matter how old a grower is, he can still acquire more wisdom about a tobacco leaf.

The tobacco plant, perhaps more than any other plant, can be and is influenced for better or worse by proper or improper fertilization. In applying fertilizer, the grower must have two essential things in mind: 1, to preserve the productiveness of his soil; and 2, to produce leaf that has the most desirable qualities, namely, BURN—GRAIN—TEXTURE and COLOR. This is a large order, but it can be successfully met by growers carefully studying the right fertilizers to use.

## O. & W. Tobacco Fertilizer

To growers who desire a concentrated mixture, we offer this formula made along similar lines as our "Complete" tobacco.

### GUARANTEED ANALYSIS

7% Nitrogen  
3% Available Phosphoric Acid  
7% Actual Potash

This formula can be furnished with potash derived from Cotton Boll or Cotton Hull Ash at a slight advance in price.

## O. & W. Complete Tobacco Fertilizer

has been a popular favorite with tobacco growers for years. The various sources of plant food are so blended that the tobacco plant is nourished from transplanting to harvest time.

### GUARANTEED ANALYSIS

5% Nitrogen  
3% Available Phosphoric Acid  
5% Actual Potash

This formula can be furnished with potash derived from Cotton Boll or Cotton Hull Ash at a slight advance in price.

## Blue Label Brand Fertilizer

In this brand we use 1000 lbs. of C. S. Meal in each ton. C. S. Meal has long been recognized as a basic ingredient for tobacco fertilizer freeing its plant food as it decomposes in the soil and feeding the plant to maturity. The phosphoric acid and potash are derived from high grade sources and every precaution is taken to keep out all elements that might react unfavorably on finished leaf.

### GUARANTEED ANALYSIS

6% Nitrogen  
3% Available Phosphoric Acid  
6% Actual Potash

This formula can be furnished with potash derived from Cotton Boll or Cotton Hull Ash at a slight advance in price.

## O. & W. High Grade Tobacco Starter

This high grade starter has been used with conspicuous success by some of our best growers in the valley. We recommend that it be applied after the first time hoeing. At that critical stage of growth an abundant supply of quickly available nitrogen enables the plant to get a vigorous start, overcome and grow away from any unfavorable condition that may exist.

Experience has taught us that the crop that grows quickly, vigorously and does not stop until it reaches maturity produces the best goods.

### GUARANTEED ANALYSIS

10% Nitrogen  
3% Available Phosphoric Acid

## O. & W. High Grade Tobacco Starter and Potash Compound

This formula with 5 per cent quickly soluble Nitrogen and 15 per cent actual Potash should be used with C. S. Meal or Castor Pomace in growing the tobacco crop and when so used makes a complete fertilizer. The Nitrogen of C. S. Meal or Pomace is slow acting and on most lands a more quickly soluble form of Nitrogen is needed to start the crop. We recommend using 1000 to 1500 lbs. per acre with a ton of C. S. Meal or Pomace.

### GUARANTEED ANALYSIS

5% Nitrogen  
5% Available Phosphoric Acid  
15% Actual Potash



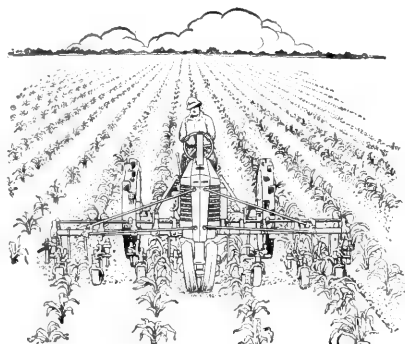
Cultivating tobacco with a John Deere Model B Tractor and John Deere Two Row Cultivator.

## O. & W. Special Corn Fertilizer

This formula has been tested and tried in the cornfields of Connecticut and Rhode Island and produced excellent crops. It carries a high percentage of available phosphoric acid, necessary to promote hard grain and early maturity. It is also extensively used in market gardening.

### GUARANTEED ANALYSIS

3% Nitrogen  
10% Available Phosphoric Acid  
4% Actual Potash



John Deere Model A Tractor with 4 row cultivator in corn.

## O. & W. Complete Market Garden Fertilizer

This is one of our special mixtures for use on Corn, Potato, Onion Crops and general Market Garden.

The sources of plant food are such as are exceedingly available to the plant and best suited to promoting rapid and vigorous growth. Tested at our own farms we are able to speak authoritatively as to its merits. All growers will be re-paid by using this special mixture on their crop.

### GUARANTEED ANALYSIS

4% Nitrogen  
8% Available Phosphoric Acid  
4% Actual Potash

This formula can be furnished with extra organic at a slight advance in price.

## O. & W. Potato and General Purpose Fertilizer

This formula should be used in growing potatoes. The 4% Nitrogen content makes it practically the same as our 5-(ammonia) 8-7 of previous years and most agronomists agree that this is a proper balance for the potato crop. This formula is also extensively used in market gardening.

### GUARANTEED ANALYSIS

4% Nitrogen  
8% Available Phosphoric Acid  
7% Actual Potash

This formula can be furnished with extra organic at a slight advance in price.

## O. & W. High Grade Potato and Vegetable Fertilizer

This is a concentrated mixture running high in analysis in every ingredient, and as a formula is extensively used in the potato growing sections of Maine. To produce large crops of potatoes you must feed heavily of Potash. This was thoroughly proven during the war, as even when Potash was extremely high and scarce some of the Maine potato growers paid the price for this ingredient and were well repaid by increased crop.

### GUARANTEED ANALYSIS

5% Nitrogen  
8% Available Phosphoric Acid  
7% Actual Potash

This formula can be furnished with extra organic at a slight advance in price.

## O. & W. 5-10-10 Fertilizer

Recommended by Agricultural authorities for potatoes.

### GUARANTEED ANALYSIS

5% Nitrogen  
10% Available Phosphoric Acid  
10% Actual Potash

## O. & W. Double Strength Fertilizer

A highly concentrated formula used principally in growing potatoes. Should be used at the rate of 1000 to 1200 lbs. per acre, being very careful that fertilizer does not come in contact with seed.

### GUARANTEED ANALYSIS

8% Nitrogen  
16% Available Phosphoric Acid  
14% Actual Potash

## O. & W. Top Dressing and Grass Fertilizer

A complete fertilizer with all the essential elements for rapid and luxurious growth, carrying both soluble salts and organic material, it is suitable both for top dressing or permanent seeding down mixture.

### GUARANTEED ANALYSIS

7% Nitrogen  
7% Available Phosphoric Acid  
7% Actual Potash



Some years ago we purchased the mixed fertilizer business of the Wilcox Fertilizer Company of Mystic, Connecticut. Wilcox formulas have always enjoyed a good reputation and are now prepared at our East Hartford plant. It is our aim to maintain and enhance that reputation, making only such changes as recent scientific research has proved advantageous.

We offer the following Wilcox formulas:

### Wilcox Corn Special

This is an old favorite, moderate in price, made of soluble materials, and producing fine crops.

#### GUARANTEED ANALYSIS

3% Nitrogen  
10% Available Phosphoric Acid  
4% Actual Potash



Model L John Deere Tractor with John Deere Two Way Plow.

### Wilcox Market Garden

This formula is deservedly popular in the great garden section of Newport Island, Eastern Connecticut, Massachusetts and surrounding territory. Produces quick luxuriant growth and early maturity of vegetables.

#### GUARANTEED ANALYSIS

4% Nitrogen  
8% Available Phosphoric Acid  
4% Actual Potash

This formula can be furnished with extra organic at a slight advance in price.

### Wilcox Top Dresser

A standard mixture made of soluble materials for application to grass lands, used either as top dressing or seeding down.

#### GUARANTEED ANALYSIS

7% Nitrogen  
7% Available Phosphoric Acid  
7% Actual Potash

### Wilcox Potato and General Purpose Fertilizer

Used extensively in growing potatoes and market garden truck, carrying a high percentage of potash needed in many crops.

#### GUARANTEED ANALYSIS

4% Nitrogen  
8% Available Phosphoric Acid  
7% Actual Potash

This formula can be furnished with extra organic at a slight advance in price.

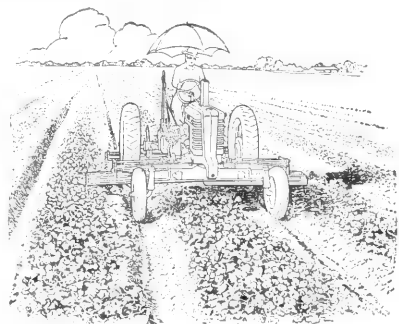
### Wilcox High Grade Potato Fertilizer

This formula carrying a high percentage of Nitrogen is a favorite in certain sections and should be used where a deficiency of vine growth has been noted. Also used successfully by market gardeners.

#### GUARANTEED ANALYSIS

5% Nitrogen  
8% Available Phosphoric Acid  
7% Actual Potash

This formula can be furnished with extra organic at a slight advance in price.



John Deere Model "BW" Tractor with Integral Cultivator.

### Wilcox 5-10-10 Fertilizer

Recommended by Agricultural authorities for potatoes.

#### GUARANTEED ANALYSIS

5% Nitrogen  
10% Available Phosphoric Acid  
10% Actual Potash

## Important Notice . . . Free Delivery of Seeds

We Deliver, Transportation Paid in the 1st and 2nd Postal Zone, Vegetable Seeds by the packet, ounce, quarter-pound, pound.

On larger quantities purchaser pays transportation.

In making this Free Delivery we reserve the right to ship goods either by Parcel Post, Express or Freight.

We reserve the right to advance prices without notice should current conditions require it.

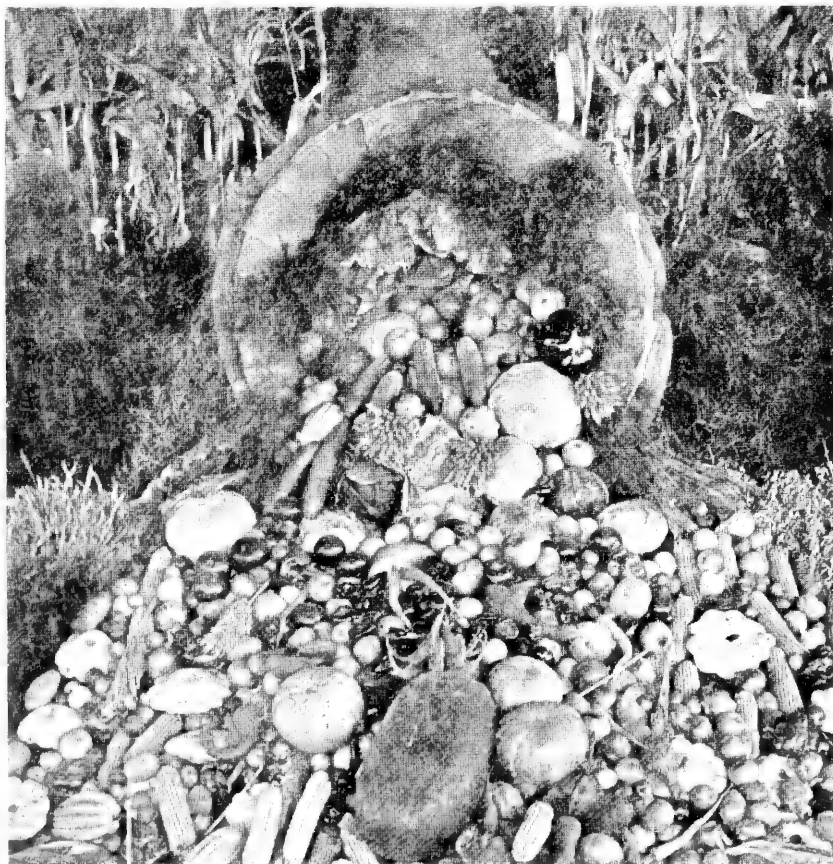
### REMITTANCES

May be made by Express Money Order, P. O. Money Order or Check.

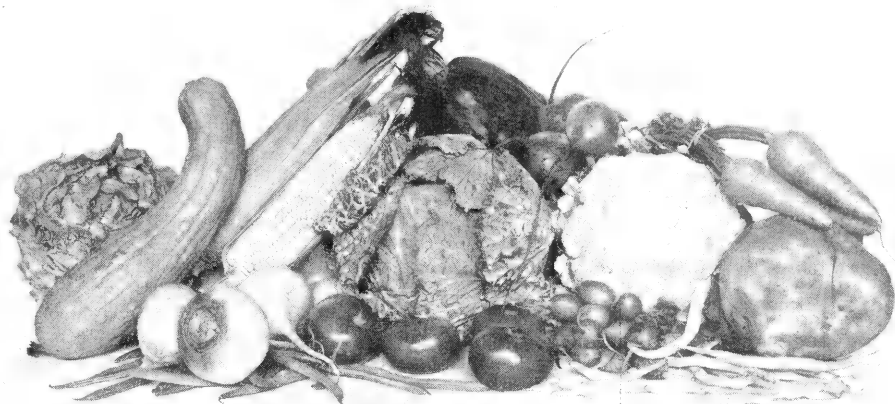
NOTE: If cash or stamps are sent by mail, REGISTER THE LETTER, otherwise it travels at owner's risk.

If goods are wanted C.O.D., 25 per cent of the amount must accompany the order. Charges for returning the money will be collected on delivery.

OLDS & WHIPPLE, INC., give no warranty, express or implied, as to purity, description, quality productiveness or any other matter of any seeds, bulbs or plants they send out, and will not be in any way responsible for the crop. When mentioned, purity and germination tests are for information only and without warranty.



1877



1941

## RELIABLE VEGETABLE SEEDS

for Market and Home Gardens

*All seeds that we offer during 1941 have been tested for germination this year*



### Asparagus

An Asparagus bed may be made from one or two year old roots, planted in fall or spring. Plant the roots in rows four feet apart, leaving about twelve inches between plants in the row. Should be planted in trenches and gradually filled in as plants grow. Seeds may be sown in April in drills one foot apart and one inch deep, and roots transplanted the following year.

**Mary Washington**—The latest development of rust resistant asparagus; large stalks with very tight tips of fine quality.

Pkt. 10c Oz. 15c ¼ lb. 30c lb. \$1.00

**Mary Washington**—Strong one year old roots.

80c for 50 \$1.50 per 100

### Bush Beans

Can be planted any time from May 1 (or after danger of frost is past) until August. Plant in rows 2½ to 3 ft. apart and 3 to 4 inches apart in the rows. Cover 1½ in. deep. Cultivate after plants are 6 in. high. 2 lbs. will plant 100 ft. row.

#### DWARF GREEN PODDED VARIETIES

**Burpee's Stringless**—An early, sturdy, large plant, very productive. Pods round, medium green, very meaty, and of excellent quality.

1 lb. 30c 2 lbs. 50c 5 lbs. \$1.10  
10 lbs. \$1.70 15 lbs. or more at 15c per lb.

**Black Valentine**—Stringless. Plant is large leaved, erect, prolific. Pods are round, dark green, finest quality.

1 lb. 30c 2 lbs. 50c 5 lbs. \$1.10  
10 lbs. \$1.75 15 lbs. or more at 16c lb.

**Bountiful**—An important early variety. Pods flat, light green, stringless and of good quality.

1 lb. 30c 2 lbs. 50c 5 lbs. \$1.10  
10 lbs. \$1.70 15 lbs. or more at 15c lb.

**Tendergreen**—Desirable for home or market garden. Pods round, fleshy, dark green, stringless, fine quality.

1 lb. 30c 2 lbs. 50c 5 lbs. \$1.10  
10 lbs. \$1.75 15 lbs. or more at 16c lb.

**Low's Champion**—Also known as Red Cranberry. Pods deep green, straight, flat, stringless and of good quality.

1 lb. 30c 2 lbs. 50c 5 lbs. \$1.15  
10 lbs. \$2.00 15 lbs. or more at 18c lb.

**Dwarf Horticultural**—Pods green at early stage, changing to greenish yellow, splashed with carmine at maturity; semi-round. Used as a shell bean.

1 lb. 30c 2 lbs. 50c 5 lbs. \$1.00  
10 lbs. \$1.70 15 lbs. or more at 15c lb.

## Dwarf Green Podded Varieties—Con.

**French Dwarf Horticultural**—A popular green shell variety. Pods large, exceptionally attractive in appearance. Very good market variety.

1 lb. 35c    2 lbs. 60c    5 lbs. \$1.20  
10 lbs. \$2.00    15 lbs. or more at 18c lb.

**White Kidney**—Excellent quality for dry shell use. Seeds long, white, kidney shaped.

1 lb. 25c    2 lbs. 45c    5 lbs. \$1.00  
10 lbs. \$1.75    15 lbs. or more at 16c lb.

**White Marrow**—Good quality for dry shell beans, excellent for baking. Seeds rather short oval, white.

1 lb. 25c    2 lbs. 45c    5 lbs. \$1.00  
10 lbs. \$1.75    15 lbs. or more at 16c lb.

**Red Kidney**—Fine quality for dry bean use. Pods waxy green color, oval flat. Seeds reddish brown.

1 lb. 25c    2 lbs. 45c    5 lbs. \$1.00  
10 lbs. \$1.75    15 lbs. or more at 16c lb.

## DWARF WAX PODDED VARIETIES



Improved Golden Wax

**Improved Golden Wax**—Used largely for home garden planting. Pods straight, thick flat, creamy yellow in color; stringless, of good quality. Seeds short, oval, white, with mottling of violet and light yellow around eye and ends.

1 lb. 30c    2 lbs. 50c    5 lbs. \$1.10  
10 lbs. \$1.75    15 lbs. or more at 16c lb.

**Pencil Pod Black Wax**—An exceedingly desirable variety for home and market garden use. Pods round, slightly curved, fleshy, golden yellow, tender, absolutely stringless.

1 lb. 30c    2 lbs. 50c    5 lbs. \$1.10  
10 lbs. \$1.75    15 lbs. or more at 16c lb.

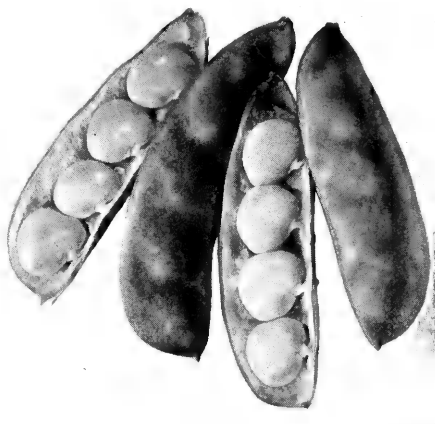
**Sure Crop Wax**—Sometimes called Bountiful Wax. Particularly desirable for market gardeners. Very productive. Pods golden yellow, thick-flat brittle, strictly stringless. Fine texture and quality.

1 lb. 30c    2 lbs. 50c    5 lbs. \$1.00  
10 lbs. \$1.80    15 lbs. or more at 16c lb.

Among the newer insecticides or bug killers for your garden none shows more promise than ROTE-NONE. This material is poisonous to eating insects and it is a contact insecticide which is non-poisonous to higher animals. It is an insecticide that can be used safely on beans and is recommended for cabbage worm and other leaf eating insects because it leaves no poison residue on the plants.

## Dwarf or Bush Lima

Plant in May after the ground has become warm, in rows 3 ft. apart, with the beans about 12 in. apart in the rows. Cover about 2 in. deep. A second planting may be made in June or early part of July.



Fordhook Bush Lima

**Burpee's Improved**—Large plants, erect, vigorous, very productive; pods contain 4 to 5 seeds.

1 lb. 35c    2 lbs. 55c    5 lbs. \$1.20  
10 lbs. \$2.10    15 lbs. or more at 20c lb.

**Fordhook**—A very popular market garden variety. Pods straight, with thick fibrous walls, contains 3 to 4 seeds. Beans large, thick oval of excellent quality.

1 lb. 35c    2 lbs. 60c    5 lbs. \$1.35  
10 lbs. \$2.30    15 lbs. or more at 21c lb.



**HOTKAPS** protect growing plants, increase yields, mature crops 2 to 3 weeks earlier, insure premium prices.

## Pole or Running Beans

Plant first part of June in hills 3 feet apart in the row and rows 4 ft. apart. Plant 6 or 8 beans in a circle around the hill with eyes of the seed downward and cover with 1½ in. of soil. When 6 in. high thin to 3 or 4 plants to hill. Fix firmly in the center of each hill a pole 5 to 8 ft. high, and when plants show runners help the vines to start by twining them around the pole from right to left.

**Early Leviathan Lima**—The earliest large-seeded Lima. Pods very straight, containing 5 to 6 beans.  
1 lb. 30c      2 lbs. 55c      5 lbs. \$1.25  
10 lbs. \$2.20      15 lbs. or more at 20c lb.

**King of the Garden Lima**—An improved strain of Large White Lima. Grows tall, vigorous, very productive. Pods flat, smooth with 4 or 5 large beans.  
1 lb. 30c      2 lbs. 55c      5 lbs. \$1.25  
10 lbs. \$2.20      15 lbs. or more at 20c lb.

**Mammoth Horticultural King or Worcester**—The largest podded and largest seeded of the Horticultural beans. Pods heavily splashed with red.  
1 lb. 35c      2 lbs. 65c      5 lbs. \$1.25  
10 lbs. \$2.20      15 lbs. or more at 20c lb.

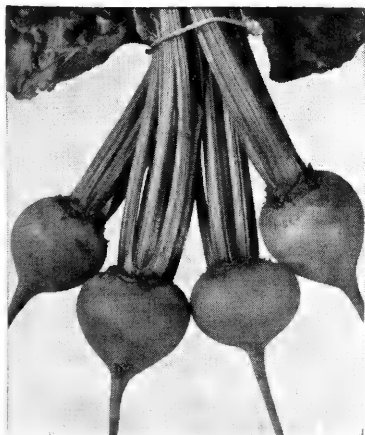
**Italian Horticultural**—A distinct variety with large, yellow pods heavily splashed with crimson.  
1 lb. 30c      2 lb. 55c      5 lb. \$1.10  
10 lb. \$1.75      15 lbs. or more at 15c lb.

**Kentucky Wonder**—The best known and most popular pole bean. Pods are large and practically round, very brittle.  
1 lb. 30c      2 lbs. 55c      5 lbs. \$1.10  
10 lbs. \$1.75      15 lbs. or more at 15c lb.

**Kentucky Wonder Wax**—Very popular variety. Good climber, productive. Yellow flat meaty pods, nearly stringless.  
1 lb. 30c      2 lbs. 55c      5 lbs. \$1.10  
10 lbs. \$1.80      15 lbs. or more at 16c lb.

## Beets

For very early crops, sow in hotbeds and transplant as soon as weather permits. For outdoor crops, sow first part of April in drills about 2 ft. apart, covering seed about 1 inch. Thin the young plants when suitable size for greens to four inches apart. One ounce sows 50 ft. of drill.



Detroit Dark Red

Quantity Discount, 10 lbs. or more 10c lb.  
5 lbs or more 5c lb.

**Crosby's Egyptian**—An extra early variety for home and market garden use. Roots a flattened globe shape; skin dark red, flesh a trifle lighter.  
Pkt. 10c      Oz. 15c      ¼ lb. 30c      1 lb. 85c

**Early Wonder**—Very popular with market gardeners, globular in shape, with small tap root. Flesh is blood red, tender and of good quality.  
Pkt. 10c      Oz. 15c      ¼ lb. 30c      1 lb. 90c

**Early Eclipse**—Medium sized round, dark red. Interior bright red with whitish zones. Good flavor.  
Pkt. 10c      Oz. 15c      ¼ lb. 30c      1 lb. 90c

**Dark Red Egyptian**—Very early. Tops small and erect. Roots flattish.  
Pkt. 10c      Oz. 15c      ¼ lb. 35c      1 lb. \$1.00

**Detroit Dark Red**—One of the very best sorts for home or market garden. Roots smooth, globe shaped of medium size. Tops small, upright, color deep red.  
Pkt. 10c      Oz. 15c      ¼ lb. 30c      1 lb. 90c

**Edmand's Early Blood Turnip**—A medium early variety. Roots top shaped; dark red of good size.  
Pkt. 10c      Oz. 15c      ¼ lb. 30c      1 lb. 85c

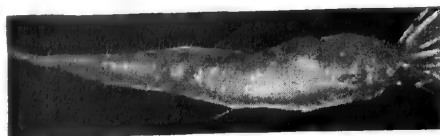
## Swiss Chard

Cooked same as spinach and when allowed to grow without cutting has large, flat, wax-like ribs which are cooked and served like asparagus. Sow seed early in spring in drills 18 inches apart.

**Giant Lucullus**—Desirable for home and market garden use. Leaf color yellowish green, heavily crumpled; stems thick, broad, light green in color  
Pkt. 10c      Oz. 15c      ¼ lb. 30c      1 lb. \$1.00

## Mangel Wurzel

A Highly Valuable Stock Feed. They are easily grown and are unequalled as a milk producing food for winter feeding. Cultivate same as beets. Six to eight pounds will sow an acre.



Mammoth Long Red

Quantity Discount 5 lbs. or more 10c lb.

**Mammoth Long Red**—The most popular. Roots extremely large, slightly tapering, grow half above ground. Color light red.  
Oz. 10c      ¼ lb. 30c      1 lb. 90c

Mangel Wurzel—Con.

**Giant Half Sugar, Rose**—A heavy yielding, valuable variety for feeding. Roots long oval; skin white with rose colored shoulder, flesh white, with good sugar content.

Oz. 15c      ¼ lb. 35c      1 lb. \$1.00

**Golden Tankard**—A half-long variety of bright yellow color. Very productive.

Oz. 15c      ¼ lb. 35c      1 lb. \$1.00

**White Sugar Beet**—An attractive heavy yielding variety used largely for stock feeding. Has high sugar content.

Oz. 15c      ¼ lb. 35c      1 lb. \$1.00

## Broccoli

A vegetable resembling cauliflower in many respects and requires the same culture, but is much quicker and easier to grow.

**Early Green Italian or Calabrese**—A leading variety. A tall branching plant forms a central head of bluish green flower buds. After the main head is removed side branches continue to develop throughout the season, and frequently form small heads, which, with the stems, are cut and served the same as Asparagus.

Pkt. 10c    Oz. 60c    ¼ lb. \$1.75    1 lb. \$6.00

**Italian Broccoli Rape or Senaps**—Distinct from other Broccolis. The turnip-like leaves are used for greens as well as the small flower heads. Can be sown in autumn for a spring crop.

Pkt. 10c    Oz. 20c    ¼ lb. 60c    1 lb. \$2.00

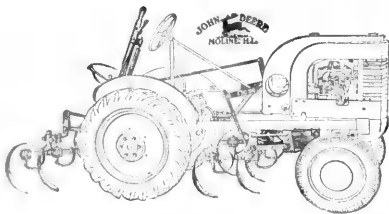
## HOTKAPS—An Individual Hothouse for Every Plant!

### Brussels Sprouts

A member of the cabbage family and cultivated in about the same manner. One ounce of seed will produce about 1000 plants.

Olds & Whipple's Best.

Pkt. 10c      Oz. 50c      ¼ lb. \$1.75



Side view of John Deere L-14 Integral One-Row 8-Shovel Cultivator mounted on John Deere Model "L" Tractor. Note lever at right of steering wheel which raises or lowers all rigs with one motion.

## Cabbage

### EARLY VARIETIES

For early crop sow in hotbeds in February or March ½ inch deep and prick out plants into cold frames to harden. When danger of frost is over set out plants in the open in rows 2½ feet apart and 2 feet apart in the row.

**Golden Acre**—An extra early Copenhagen type with small round solid heads. Plants are dwarf with few outer leaves.

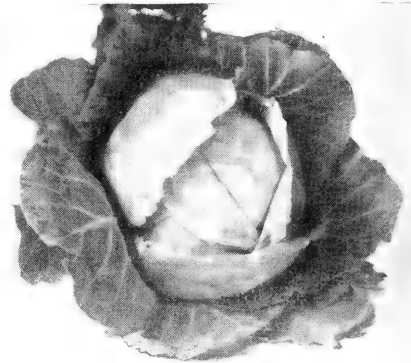
Pkt. 10c    Oz. 50c    ¼ lb. \$1.50    1 lb. \$5.50

**Copenhagen Market**—Splendid for the early market. Plants small, compact, allowing very close planting; stem short, head uniformly round, proving valuable as early kraut variety.

Pkt. 10c    Oz. 45c    ¼ lb. \$1.35    1 lb. \$4.50

**Early Jersey Wakefield**—An extensively used early variety, with small compact conical heads about 7 inches long. Used largely by market gardeners.

Pkt. 10c    Oz. 35c    ¼ lb. \$1.00    1 lb. \$3.50



Premium Flat Dutch

### LATE VARIETIES

**O.&W. Premium Flat Dutch**—An extra fine selection. Excellent for home or market garden use. Heads extremely large, flat, and solid. A good keeper.

Pkt. 10c    Oz. 30c    ¼ lb. 90c    1 lb. \$3.00

**Surehead**—A variety of the late flat Dutch type. Medium long stem, a dependable header. Heads large, hard, round, somewhat flattened.

Pkt. 10c    Oz. 30c    ¼ lb. 90c    1 lb. \$3.00

**Danish Ball Head or Hollander**—Most widely used type of late cabbage. Heads deep round, very hard, flavor good, desirable for kraut, keeps perfectly in storage until spring.

Pkt. 10c    Oz. 40c    ¼ lb. \$1.20    1 lb. \$4.00

**Danish Round Head**—Short Stem, large solid ball heads, good winter keeper.

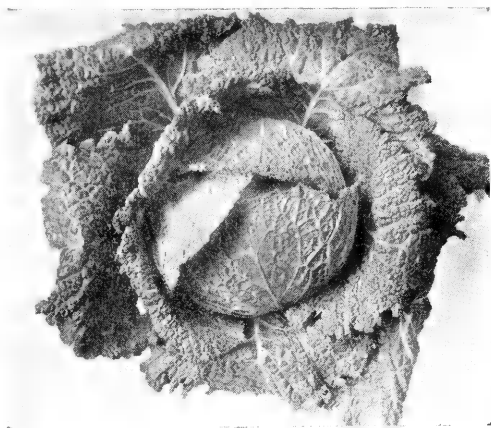
Pkt. 10c    Oz. 40c    ¼ lb. \$1.20    1 lb. \$4.00

**Penn. State**—Very heavy yielder. Large, good quality, round solid heads. Keeps good in winter storage.

Pkt. 10c    Oz. 50c    ¼ lb. \$1.50    1 lb. \$5.50

**Mammoth Red Rock**—The largest and best red cabbage. Heads round, to slightly flattened globe shape, very hard, deep purplish red. An excellent keeper.

Pkt. 10c Oz. 40c  $\frac{1}{4}$  lb. \$1.20 1 lb. \$4.00



**Improved American Savoy**

**Improved American Savoy**—The best of the Savoy group for home use or market. Leaves blistered, stems short. Heads flattened globe shape; large, firm, interior leaves crumpled, attractive light yellow.

Pkt. 10c Oz. 50c  $\frac{1}{4}$  lb. \$1.50 1 lb. \$5.00

## Chinese or Celery Cabbage

A species of cabbage from China.

**Chihili**—Early and dependable in heading. Tall and slender.

Pkt. 10c Oz. 30c  $\frac{1}{4}$  lb. 90c 1 lb. \$3.00

**Wong Bok**—Select strain. An early dwarf variety with large compact heads.

Pkt. 10c Oz. 30c  $\frac{1}{4}$  lb. 90c 1 lb. \$3.00

## Carrots

Thrive best in rather light loam; soil should be well cultivated and fertilized. Plant seed in rows 14 inches apart, and thin plants to 2 or 3 inches in the rows. Plant from the middle of April to the middle of June. One ounce will sow 100 feet of drill, 3 to 4 pounds per acre.

Quantity Discount 5 lbs. or more 10c lb.

**Half-Long Nantes**—Also known as coreless. Half-long, well shaped and uniform roots, exceptionally fine flavor, fine grained, tender, and practically coreless.

Pkt. 10c Oz. 25c  $\frac{1}{4}$  lb. 75c 1 lb. \$2.50

**Improved Type Chantenay**—Early and productive, stump rooted. Rich orange in color, which is well retained when the carrots are cooked. Desirable for home and market garden.

Pkt. 10c Oz. 20c  $\frac{1}{4}$  lb. 60c 1 lb. \$2.00



**Improved Danvers Half Long**

**Improved Danvers Half-Long**—A favorite late carrot of great uniformity. Fine grained, tender, bright orange flesh, rich in flavor and very sweet.

Pkt. 10c Oz. 20c  $\frac{1}{4}$  lb. 60c 1 lb. \$2.00

**Hutchinson**—Very prolific. Roots deep orange with greenish shoulder, nearly cylindrical, ending in abrupt stump end; flesh deep orange. Tender and of good quality.

Pkt. 10c Oz. 20c  $\frac{1}{4}$  lb. 60c 1 lb. \$2.00

**Improved Long Orange**—A very large, late maturing table carrot which gives a tremendous yield on good deep soil. Roots are long and tapering with smooth skin and deep orange flesh. Valuable for stock feeding.

Pkt. 10c Oz. 20c  $\frac{1}{4}$  lb. 60c 1 lb. \$2.00

**Imperator**—A new long variety with uniform taper, deep orange skin. Flesh deep orange. A big bright carrot for bunching.

Pkt. 10c Oz. 25c  $\frac{1}{4}$  lb. 75c 1 lb. \$2.50

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**FOR BEST RESULTS USE  
O. & W. GARDEN FERTILIZER**

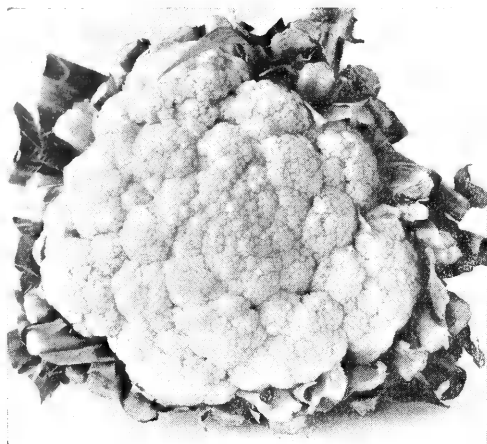
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## Cauliflower

Is one of the most delicious varieties of the Cabbage family. Requires a rich deep soil. For an early crop, start the seed indoors during March and set into the open by the end of April. For a main or fall crop sow the seed during June and plant out the latter part of July. Cultivate thoroughly and frequently. When heads begin to form, bunch the leaves together and tie loosely to protect them from the sun.



**Early American**—Very early, sure heading variety, uniform in maturity, desirable for extra early market garden.

Pkt. 25c  $\frac{1}{4}$  oz. \$1.50  $\frac{1}{2}$  oz. \$2.50 Oz. \$4.50  
 $\frac{1}{4}$  lb. \$16.00

**Early Snowball**—The best and most widely used early variety. Plants dwarf, with short pale green leaves. Heads medium, firm, compact, solid, pure white, and of finest quality.

Pkt. 25c  $\frac{1}{4}$  oz. \$1.50  $\frac{1}{2}$  oz. \$2.50 Oz. \$4.50  
 $\frac{1}{4}$  lb. \$16.00

**Erfurt Early Dwarf**—Large heads of uniform size, having a closely formed, very smooth, pure white curd of finest flavor.

Pkt. 25c  $\frac{1}{4}$  oz. \$1.50  $\frac{1}{2}$  oz. \$2.50 Oz. \$4.50  
 $\frac{1}{4}$  lb. \$16.00

**Danish Giant or Dry Weather**—Well adapted to dry weather conditions, later than Early Snowball and of larger growth. Heads creamy white, and of excellent quality.

Pkt. 25c  $\frac{1}{4}$  oz. \$1.50  $\frac{1}{2}$  oz. \$2.50 Oz. \$4.50  
 $\frac{1}{4}$  lb. \$16.00

## Celery

Sow seed about the first of April in hot-bed or cold frame. Transplant four inches apart when three inches high in rich soil; water and protect until well rooted, then transplant into rows 3 feet apart either on surface or in trenches about 8 inches deep. Set the plants 4 to 5 inches apart, or for extra large stalks 6 to 8 inches. To blanch draw earth around the plants from time to time, this is continued until only the top leaves remain uncovered.



**Boston Market**—Excellent fall variety for market garden use. Stalks of medium height form a cluster of heads, tender, crisp, with exceptionally mild flavor; blanches readily to creamy yellow.

Pkt. 10c Oz. 40c  $\frac{1}{4}$  lb. \$1.20 1 lb. \$4.00

**Golden Plume**—Also called Wonderful. Some gardeners consider it the best early variety. Resembles Golden Self Blanching but earlier. Medium height with compact, full heads, blanches readily to golden yellow; excellent quality.

Pkt. 15c Oz. 80c  $\frac{1}{4}$  lb. \$2.50 1 lb. \$8.00

**Winter Queen**—A medium dwarf winter variety. Stalks light green, broad, solid and crisp; blanches to a creamy white.

Pkt. 10c Oz. 35c  $\frac{1}{4}$  lb. \$1.00 1 lb. \$3.50

**Giant Pascal**—A late variety for winter use. Plants large, stocky, with dark green leaves. Stalks long, broad, and solid; blanches to yellow-white of excellent, nutty flavor.

Pkt. 10c Oz. 50c  $\frac{1}{4}$  lb. \$1.50 1 lb. \$5.00

**Easy Blanching**—A second early variety, excellent for home or market garden. Vigorous and compact in habit of growth, it blanches readily to attractive white, and is a good keeper. Stalks are thick, solid, and of good flavor.

Pkt. 10c Oz. 40c  $\frac{1}{4}$  lb. \$1.20 1 lb. \$4.00

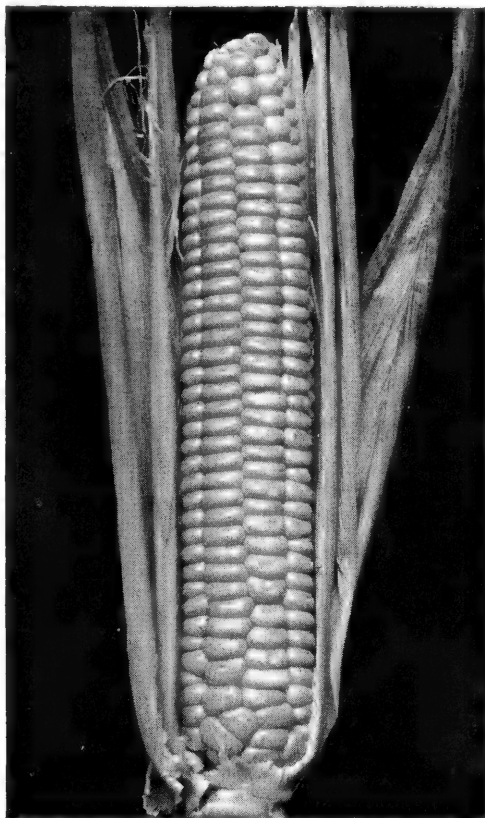
## Celeriac

**Giant Smooth Prague**—Known also as turnip-rooted celery. Plants dark green with hollow stalks. Roots smooth, spherical, 2 to 3 inches in diameter, used for flavoring.

Pkt. 10c Oz. 30c  $\frac{1}{4}$  lb. 90c 1 lb. \$3.00



## Corn



Field Varieties (At Market Prices)

**Early Canada Flint**—The earliest 8 rowed yellow corn. Medium sized grain, with a small cob.

**Eureka**—For ensilage only. Grows a mammoth stalk from 12 to 14 feet high with an abundance of foliage, and we believe will produce more tons of ensilage than any other variety.

**Golden Nugget, Early Yellow Flint**—Heavy in stalk, foliage and grain. Ears are eight rowed and 10 to 12 inches long.

**Improved Leaming**—A favorite in the dairying districts and well adapted to the average season. Stalks grow 8 to 12 ft. high with ears 9 to 11 inches long.

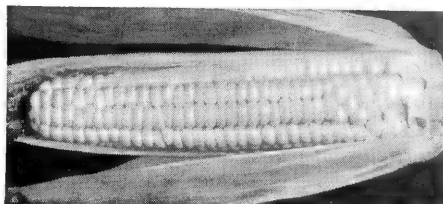
**Longfellow, Yellow Flint**—A well and favorably known variety, large, long ears.

**Southern Hybrid Sweepstakes**—Yielded 62 bu. of grain per acre, Conn. test, 1934. It made the highest average yield of grain for three yrs. as well as making one of the heaviest average yields of ensilage.

**West Branch Sweepstakes**—Noted for earliness, productiveness and its adaptation to soil and climate. Stalks grow 10 to 12 ft. high with heavy foliage. Ears are large, averaging 12 in. in length, containing 14 to 20 rows of red, white capped and yellow tinged grains.

## SWEET VARIETIES

Requires a rich warm soil. For early varieties plant when ground has become well warmed, successive plantings may be continued until July. Plant in hills about 3 ft. apart. One quart will plant 200 hills.



Golden Bantam

## HYBRID VARIETIES

**Market Hybrid**—A very early hybrid. Corresponds in size and earliness with Extra Early Golden, but yields greater and is more resistant to disease.

1 lb. 40c      5 lbs. \$1.60      10 lbs. \$2.75  
15 lbs or more 25c lb.

**Marcross—Large Eared**—Yellow hybrid variety with 10-14 rowed ears of good quality. Heavy yield for an extra early variety.

1 lb. 40c      5 lbs. \$1.60      10 lbs. \$2.75  
15 lbs. or more at 25c lb.

**Golden Cross Bantam**—Few days later than Golden Bantam, has 10 to 12 rowed ears, of superior quality. Stalks are stout and leafy and yield more than ordinary varieties. One of the outstanding hybrids from inbred strains for uniformity and resistance to Stewart's disease.

1 lb. 40c      5 lbs. \$1.60      10 lbs. \$2.75  
15 lbs. or more at 25c lb.

## EARLY VARIETIES

**Extra Early Golden**—The earliest yellow variety. 10 days earlier than Golden Bantam. Kernels golden yellow, tender, and of good flavor. Very prolific for so early a variety.

1 lb. 25c      5 lbs. \$1.00      10 lbs. \$1.90  
15 lbs. or more at 15c lb.

**Golden Sunshine**—An early yellow variety with good sized ear, desirable for market garden use. Week earlier than Golden Bantam.

1 lb. 25c      5 lbs. \$1.00      10 lbs. \$1.90  
15 lbs. or more at 15c lb.

**Columbia**—Earliest white variety. Very desirable for the early market. Good sized ears.

1 lb. 25c      5 lbs. \$1.00      10 lbs. \$1.90  
15 lbs. or more at 15c lb.

**Golden Bantam**—The best known and most used of all the yellow varieties. Ears 8 rowed, kernels broad, with tender hull, sweet, and of exceptionally fine flavor. Widely used by market and home gardeners.

1 lb. 25c      5 lbs. \$1.00      10 lbs. \$1.90  
15 lbs. or more at 15c lb.

**Whipple's Yellow**—One of the best early yellow varieties for home and market garden, maturing a few days later than Golden Bantam, with larger ears.

1 lb. 25c      5 lbs. \$1.00      10 lbs. \$1.90  
15 lbs. or more at 15c lb.

Corn—Con.

**INTERMEDIATE VARIETIES**

**Golden Giant**—The result of crossing Golden Bantam and Howling Mob; ears are large, kernels golden yellow, of good quality.

1 lb. 25c      5 lbs. \$1.00      10 lbs. \$1.90  
15 lbs. or more at 15c lb.

**Black Mexican**—Popular for home and market garden use. Ears 8 rowed. Kernels tender, very sweet, white at eating stage, changing to blue-black at maturity.

1 lb. 30c      5 lbs. \$1.25      10 lbs. \$2.30  
15 lbs. or more at 20c lb.

**LATE VARIETIES**

**Bantam Evergreen**—A cross of Golden Bantam and Evergreen having Evergreen type of ear with 14 to 18 rows. Kernels rich, golden yellow, sweet and of first quality.

1 lb. 25c      5 lbs. \$1.00      10 lbs. \$1.90  
15 lbs. or more at 15c lb.

**Evergreen**—This is the old standard white variety for home and market gardens. Stalks 7 to 8 ft. Ears 8 in. long with 16 or more rows of the finest, large, sweet kernels.

1 lb. 25c      5 lbs. \$1.00      10 lbs. \$1.90  
15 lbs. or more at 15c lb.

**Mammoth Sugar**—A late, large eared type, popular with market gardeners. Ears 12 to 16 rows. Kernels snowy white and of good flavor.

1 lb. 25c      5 lbs. \$1.00      10 lbs. \$1.90  
15 lbs. or more at 16c lb.

**FOR BEST RESULTS USE O.&W.  
CORN FERTILIZER**



**Protect  
Your  
Seed Corn**

During the period when it is most easily damaged, by ridding your crop of crows and other corn-pulling birds and animals. It saves loss of seed and labor of replanting. It positively will not clog any planter. It is non-poisonous and will not injure the seed or any kind of corn. It is more effective, more convenient to use, and more economical than any other material.

(1 Quart) Enough for 4 bushels seed. **\$1.75**

(1 Pint) Enough for 2 bushels seed. **1.00**

(1/2 Pint) Enough for 1 bushel seed. **.60**



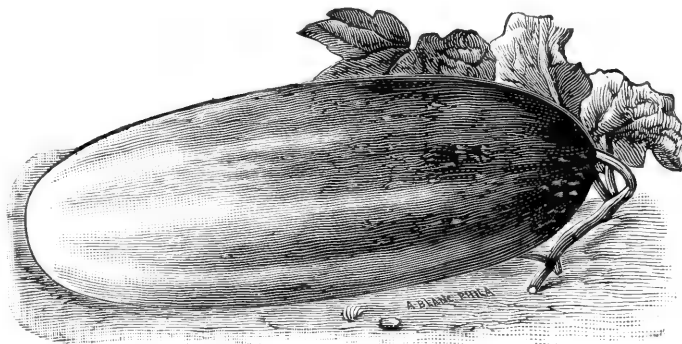
**Stanley's CROW  
REPELLENT**

**Cress**

A desirable salad and garnishing plant. Should be sown thickly in drills, on good rich ground, in early spring.

**Curled**—A hardy, quick growing annual, having finely curled, deep green foliage, with pleasing pungent flavor; used for garnishing.

Pkt. 10c      Oz. 20c      1/4 lb. 50c

**Cucumber****Improved Early White Spine**

To have the earliest cucumbers, start seeds in pots, small paper boxes or berry baskets in a warm place and transplant as soon as weather permits. For general crop plant seeds during May when ground is dry and warm in hills about 4 ft. apart; thin out to three or four plants to the hill when well established. For pickles plant the middle of June.

**Early Cluster**—A fine pickling variety. Very early, bears clusters of two and three. If kept gathered will continue to bear through a long season.

Pkt. 10c      Oz. 15c      1/4 lb. 35c      1 lb. \$1.00

**Boston Pickling**—Similar to Green Prolific. Excellent pickling variety, medium green, slightly tapered.

Pkt. 10c      Oz. 15c      1/4 lb. 35c      1 lb. \$1.00

**A & C**—Dark green throughout grows about 10 in. long and 2 1/4 in. thick, well rounded at the ends, very desirable for market.

Pkt. 10c      Oz. 15c      1/4 lb. 40c      1 lb. \$1.25

**Straight Eight**—A heavy cropper growing about 8 in. long and 2 in. thick—dark green with no objectionable striping at the tips.

Pkt. 10c      Oz. 15c      1/4 lb. 40c      1 lb. \$1.25

**Improved Early White Spine**—Popular among older early sorts, very good for home garden use. Uniform good size and color.

Pkt. 10c      Oz. 15c      1/4 lb. 35c      1 lb. \$1.00

**Davis Perfect**—A popular slicing variety. Deep dark green with white spines. Solid flesh of excellent quality. Small seed cavity.

Pkt. 10c      Oz. 15c      1/4 lb. 40c      1 lb. \$1.25

**Longfellow**—A variety suited to outdoor or greenhouse culture. Very large and extremely dark green over entire surface and holds its color after picking. White spined.

Pkt. 10c Oz. 15c  $\frac{1}{4}$  lb. 45c 1 lb. \$1.50

**Improved Long Green**—Standard late large black spined variety for home garden; excellent for slicing; hardy and prolific, deep green, straight, slightly tapered.

Pkt. 10c Oz. 15c  $\frac{1}{4}$  lb. 40c 1 lb. \$1.25

## Dandelion

Sow in drills 12 inches apart, covering seeds about one-half inch deep and thin plants to 4 inches apart in rows. One ounce will plant 100 feet of drill, one pound to the acre.

**Improved Thick-Leaved**—A highly desirable variety with thick broad leaves. Very productive.

Pkt. 10c Oz. 70c  $\frac{1}{4}$  lb. \$2.00 1 lb. \$7.00

## Dill

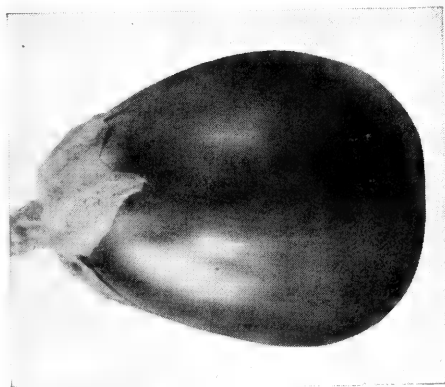
Used for Flavoring Pickles or as a Condiment

**Long Island Mammoth**—Grows 2 to 2½ ft. high, with finely cut leaves. Seeds flat and have a strong flavor.

Pkt. 10c Oz. 15c  $\frac{1}{4}$  lb. 45c 1 lb. \$1.25

## Egg Plant

Requires 4 to 6 weeks to produce plants for field setting. Seed should be sown in hotbed during March and when 2 or 3 inches high plants should be transplanted to pots. Set out in open ground during May in rows 3 feet apart, leaving 2 feet between plants.



**Early Long Purple**—Extremely productive, matures early, very attractive dark purple medium sized fruits.

Pkt. 10c Oz. 50c  $\frac{1}{4}$  lb. \$1.50 1 lb. \$5.00

**New Hampshire Hybrid**—Early and very prolific fruit, slightly smaller than Black Beauty but a much heavier yielder.

Pkt. 10c Oz. 75c  $\frac{1}{4}$  lb. \$2.50

**Improved New York Purple**—The leading variety for home and market gardeners. Very productive of large smooth, broad oval, black-purple, glossy fruits. Very uniform.

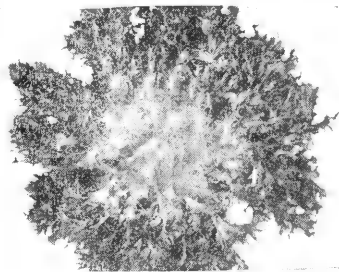
Pkt. 10c Oz. 40c  $\frac{1}{4}$  lb. \$1.25 1 lb. \$4.00

**Black Beauty**—The earliest of all large fruited Egg Plants. The large egg-shaped purplish black fruits are smooth. And hold well after picking.

Pkt. 10c Oz. 45c  $\frac{1}{4}$  lb. \$1.35 1 lb. \$4.50

## Endive

For early use sow as soon as ground can be worked in spring in drills fifteen inches apart, thin plants to six inches in the row. Any ordinary soil will do, but a moist place is preferred. To blanch the leaves, gather them together when dry and tie with matting or cover with ordinary flower pots inverted. One ounce will produce about 3000 plants.



Green Curled

**Batavian Full Hearted (Escarolle)**—An improved strain of Batavian Broad Leaved, having larger leaf, broader, thicker head and earlier in maturity.

Pkt. 10c Oz. 15c  $\frac{1}{4}$  lb. 45c 1 lb. \$1.50

**Green Curled**—Leaves are curled giving plants a feathery appearance. Color rich green. Very desirable for salads.

Pkt. 10c Oz. 15c  $\frac{1}{4}$  lb. 40c 1 lb. \$1.35

**Moss Curled**—Grows more compact than green curled, leaf stems often tinged purple; blanches creamy white.

Pkt. 10c Oz. 15c  $\frac{1}{4}$  lb. 40c 1 lb. \$1.35

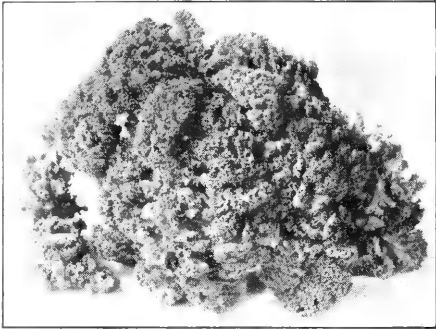
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**FOR BEST RESULTS USE  
O. & W. GARDEN FERTILIZER**

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## Kale

Plant the larger varieties in hills two by three feet apart and thin to one plant to the hill. Requires deep, rich soil. Set out plants in June and treat in same manner as for cabbage. One ounce will produce 2000 plants.



**Green Curled Scotch Dwarf**—Hardier than cabbage, standing almost zero temperature and is improved by frost. Plants grow about a foot high. Leaves are deep green.

Pkt. 10c Oz. 15c  $\frac{1}{4}$  lb. 35c 1 lb. \$1.25

**Green Curled Scotch Tall**—Plants of this variety grow to a height of two or three feet. Color, etc. similar to dwarf.

Pkt. 10c Oz. 15c  $\frac{1}{4}$  lb. 45c 1 lb. \$1.50

**Siberian (German Greens)**—A very vigorous spreading variety; leaves are large, plain in center, cut and frilled at edges; color a bluish green.

Pkt. 10c Oz. 15c  $\frac{1}{4}$  lb. 40c 1 lb. \$1.25

## Kohl Rabi

An intermediate vegetable between the cabbage and turnip. Prepare as for cabbage. Sow in April in rows 18 inches apart and thin out to 8 inches apart in the row. One ounce gives 3000 plants.

**White Vienna**—An early dwarf variety, suitable for home or market garden. Color light green; flesh clear white.

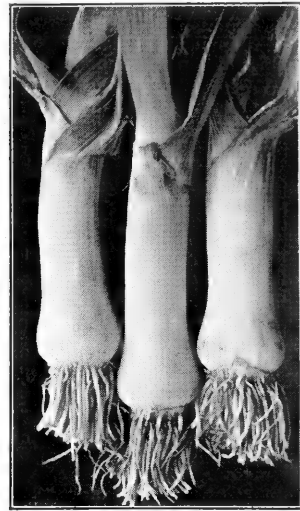
Pkt. 10c Oz. 25c  $\frac{1}{4}$  lb. 75c 1 lb. \$2.50

**Purple Vienna**—Similar to White Vienna except in color.

Pkt. 10c Oz. 25c  $\frac{1}{4}$  lb. 85c 1 lb. \$3.00

## Leek

Sow in April in drills 1 inch deep and 1 foot apart. When 6 or 8 inches high trim off tops and transplant in rows 10 inches apart each way. Plant as deep as possible. When hoeing, earth up to blanch the necks.



**Large American Flag**—A very popular early variety, strong growing, stems rather thick, large medium green leaves, the gardener's favorite.

Pkt. 10c Oz. 50c  $\frac{1}{4}$  lb. \$1.50 1 lb. \$5.00

## Lettuce

Lettuce needs a rich and moist soil, should be sown in rows about 12 inches apart and the plants thinned to ten inches apart for the heading varieties. When not grown for head they may be sown broadcast. The more rapid the growth, the better the quality. One ounce for 3000 plants.

### HEADING VARIETIES



Big Boston

**Big Boston**—A very popular variety for cold frame forcing or open culture, medium size compact heads. Leaves are wavy at edges tinged reddish brown.

Pkt. 10c Oz. 15c  $\frac{1}{4}$  lb. 45c 1 lb. \$1.50

**Crisp as Ice or Hartford Bronze Head**—Very popular home garden variety. Compact medium size heads. Leaves are thick and crumpled; green overlaid with dark brown, slow to start to seed, stands hot weather.

Pkt. 10c Oz. 15c  $\frac{1}{4}$  lb. 50c 1 lb. \$1.75

**Lettuce—Heading Varieties—Con.**

**Hanson**—A good summer lettuce. Makes a large, solid, compact crisp head. Leaves are large and very broad, light green color. Very reliable.

Pkt. 10c Oz. 15c  $\frac{1}{4}$  lb. 45c 1 lb. \$1.50

**Iceberg**—A large, late variety. Heads are compact, with whitish interior, crisp and sweet. Leaves light green with a touch of brown on edges. Different from New York variety which is sometimes called "Iceberg" by growers.

Pkt. 10c Oz. 15c  $\frac{1}{4}$  lb. 45c 1 lb. \$1.50

**May King**—An early variety for greenhouse forcing or outside planting. Small compact heads, with yellow interior. Leaves yellowish green, tinged with brown at edges. Fine flavor and quality.

Pkt. 10c Oz. 15c  $\frac{1}{4}$  lb. 45c 1 lb. \$1.50

**New York No. 12**—Commonly sold in our markets as "Iceberg" but is of a different type. A very large, late variety, having a solid head with few outer leaves.

Pkt. 10c Oz. 20c  $\frac{1}{4}$  lb. 60c 1 lb. \$2.00

**IMPERIAL 847**—New sure heading New York type for warm weather. Dark green, large and hard heading. Best Imperial strain yet produced for eastern climate.

Pkt. 10c Oz. 20c  $\frac{1}{4}$  lb. 60c 1 lb. \$2.00

**Tennisball** (black seeded)—Also called Salamander. Very popular medium early variety. Medium sized round, firm heads of very good quality. Broad medium green crumpled leaves.

Pkt. 5c Oz. 15c  $\frac{1}{4}$  lb. 45c 1 lb. \$1.50

**White Boston**—Similar to white seeded Big Boston. Leaves are slightly lighter green and have no brown tint. Stands heat very well.

Pkt. 10c Oz. 15c  $\frac{1}{4}$  lb. 45c 1 lb. \$1.50

**LOOSE LEAVED VARIETIES**

**Simpson's Early Curled** (also called Early Curled Silesia)—An early, hardy variety with large crumpled, frilled leaves, light green color, very tender. White seed.

Pkt. 5c Oz. 15c  $\frac{1}{4}$  lb. 45c 1 lb. \$1.50

**Prizehead**—One of the best varieties for broadcast cultivation. Color light brown on a medium green base, leaves crumpled and frilled at edges. White seed.

Pkt. 10c Oz. 15c  $\frac{1}{4}$  lb. 45c 1 lb. \$1.50

**Chicken Lettuce**—A hardy, dark green variety, grows tall with large leaves, used for poultry and rabbit feed.

Pkt. 10c Oz. 15c  $\frac{1}{4}$  lb. 45c 1 lb. \$1.50

**Cos or Romaine**

Belongs to the lettuce family but leaves are much thicker with a brittle midrib. Sometimes called celery lettuce.

Pkt. 10c Oz. 15c  $\frac{1}{4}$  lb. 45c 1 lb. \$1.50

**Mustard**

Sow from April to June in drills one foot apart and cover seed lightly.

**White or English**—Used principally for salads. Leaves may be boiled and used as greens.

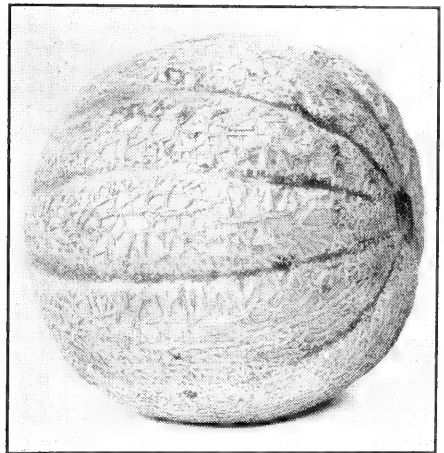
Oz. 10c  $\frac{1}{4}$  lb. 30c 1 lb. 75c

**Giant Curled**—Very hardy and most popular for greens. Large wide, bright green leaves, curly on edges.

Oz. 10c  $\frac{1}{4}$  lb. 35c 1 lb. \$1.00

**Muskmelons**

The most suitable soil for melons is rich warm sandy loam. Plant early in May in hills 4 to 6 feet apart, placing 8 to 10 seeds in each hill. When all danger of insects has passed thin to 4 plants per hill.



**Benders Surprise**

**Benders Surprise**—One of the best. A large delicious, distinctly ribbed, oblong variety with full rounded ends. Bright salmon colored flesh of sweet flavor.

Pkt. 10c Oz. 15c  $\frac{1}{4}$  lb. 45c 1 lb. \$1.50

**Delicious**—A very desirable early strain of Benders Surprise. Slightly smaller and earlier.

Pkt. 10c Oz. 15c  $\frac{1}{4}$  lb. 45c 1 lb. \$1.50

**Emerald Gem**—A very popular early home garden variety. Deep emerald green color turning yellowish at maturity, globular, distinctly netted; flesh very thick with small seed cavity.

Pkt. 10c Oz. 15c  $\frac{1}{4}$  lb. 35c 1 lb. \$1.25

**Hearts of Gold**—A medium sized round, heavily netted melon of very good quality with thick orange flesh.

Pkt. 10c Oz. 15c  $\frac{1}{4}$  lb. 35c 1 lb. \$1.25

**Honey Rock**—A very popular new large round, coarse netted melon. Thick orange-salmon flesh. Very sweet and juicy.

Pkt. 10c Oz. 15c  $\frac{1}{4}$  lb. 45c 1 lb. \$1.50

## Muskmelons—Con.

**Lake Champlain**—A very early salmon fleshed medium sized melon.

Pkt. 10c Oz. 15c  $\frac{1}{4}$  lb. 35c 1 lb. \$1.25

**Osage or Miller's Cream**—A medium size, home garden variety. Dark green skin sparsely netted and ribbed. Thick fine grained salmon flesh of a very good flavor.

Pkt. 10c Oz. 15c  $\frac{1}{4}$  lb. 35c 1 lb. \$1.25

**Pride of Wisconsin**—Large oval shaped melon with coarse netting, thick orange flesh of fine flavor, few days later than Benders Surprise.

Pkt. 10c Oz. 15c  $\frac{1}{4}$  lb. 45c 1 lb. \$1.50

**Rocky Ford or Netted Gem**—One of the most widely known of all cantaloupes. A small nearly round, heavily netted variety. Flesh is green with a gold tinge at center. Very thick and of fine flavor.

Pkt. 10c Oz. 15c  $\frac{1}{4}$  lb. 35c 1 lb. \$1.25

## Nasturtium

Cultivated for both use and ornament. Young seeds may be used as capers and leaves for salad purposes. The beautiful flowers, blooming freely all summer add a charm to the garden and lawn. Plant in May.



A specially prepared blend of the proper proportions of the various colors to make the most beautiful display.

### Dwarf or Tall Mixed

Pkt. 5c Oz. 10c  $\frac{1}{4}$  lb. 25c

## Okra or Gumbo

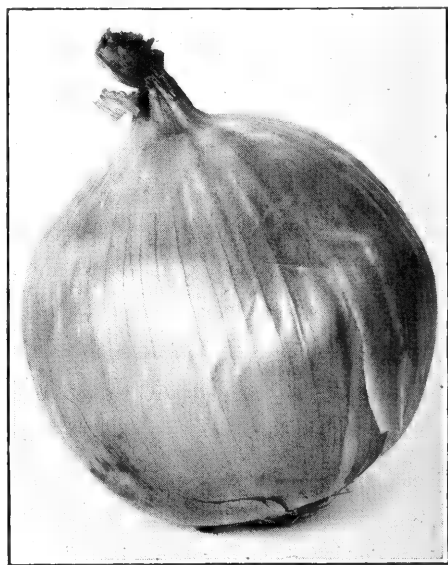
Sow thickly in drills 2 ft. apart and thin plants to a foot apart in the row. For winter use, when young slice into narrow pieces, string and hang in shade to dry, or may be pickled like cucumbers.

**Dwarf Green**—Early and productive. Pods are tender and are borne throughout the season.

Oz. 10c  $\frac{1}{4}$  lb. 25c 1 lb. 65c

## Onion

The onion thrives best in deep, loamy soil, well fertilized. Sow the seeds thinly in drills 1 foot apart. Cover seeds about  $\frac{1}{4}$  inch, roll and tread soil down solidly. When 3 inches high, thin out to 3 inches apart. Cultivate well and keep out weeds. One ounce seed will sow 100 feet of drill. Six pounds to one acre.



Yellow Globe

**Wethersfield Large Red**—One of the oldest and best known varieties. A large, flat bottom onion with sloping top. Very attractive in appearance. Smooth red outer skin. Flesh firm, very fine grain tinged with pink, strong flavor. Very productive and a good keeper.

Pkt. 10c Oz. 35c  $\frac{1}{4}$  lb. \$1.00 1 lb. \$3.50

**Southport Red Globe**—A very popular variety of good size, perfectly round, with small neck, deep red outer skin. White flesh, pink tinge, good flavor.

Pkt. 10c Oz. 35c  $\frac{1}{4}$  lb. \$1.00 1 lb. \$3.50

**Southport White Globe**—The best white variety. Very attractive. Medium size, pure white. Thin delicate skin. Flesh fine grained, crisp, and mild.

Pkt. 10c Oz. 60c  $\frac{1}{4}$  lb. \$2.00 1 lb. \$6.00

**White Portugal or Silverskin**—An all purpose variety. Bulbs medium size, hard, thick-flat, clear white, good flavor. Excellent for pickling.

Pkt. 10c Oz. 40c  $\frac{1}{4}$  lb. \$1.25 1 lb. \$4.50

**Early Yellow Globe**—New early variety maturing from seed as early as the crop from onion sets. Fine shape and three weeks earlier than other globe shaped varieties.

Pkt. 10c Oz. 50c  $\frac{1}{4}$  lb. \$1.50 1 lb. \$5.00

**Southport Yellow Globe**—A standard late variety of good keeping quality. Large, solid golden brown, globe shaped bulbs, having a small neck and a heavy thick skin. White, mild, crisp flesh.

Pkt. 10c Oz. 50c  $\frac{1}{4}$  lb. \$1.50 1 lb. \$5.00

**Yellow Globe Danvers**—A popular strain of Yellow Globe, earlier than Southport. Bulbs are medium large, skin is light yellow; flesh white with faint tinge of yellow.

Pkt. 10c Oz. 50c  $\frac{1}{4}$  lb. \$1.50 1 lb. \$5.00

**Sweet Spanish**—Very productive. Bulbs large, globular, skin thin, lighter shade of yellow than Southport Yellow Globe; mild and sweet. Very good for slicing. Excellent for transplanting.

Pkt. 10c Oz. 50c  $\frac{1}{4}$  lb. \$1.50 1 lb. \$5.00

**Japanese or Ebenezer**—Medium size, thick skin, firm, dark yellow, deep flat, medium size bulbs. An excellent variety for producing sets, which grow to a large size.

Pkt. 10c Oz. 50c  $\frac{1}{4}$  lb. \$1.50 1 lb. \$5.00

## Onion Sets

Should be planted as early as the ground can be worked in rows 12 inches apart. Set each about 3 inches apart. When onions are grown from sets they can be used in the green state in June, or will ripen by July.



**Ebenezer or Japanese**—Have light, golden brown skin with pure white flesh.

1 lb. 25c 4 lbs. 75c 8 lbs. \$1.35

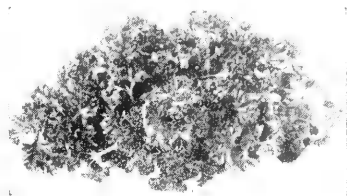
Ask for prices on larger quantities

## Parsley

Sow early in spring in drills 1 foot apart, covering lightly; thin out the plants to 3 to 4 inches apart; used for flavoring and garnishing. A single row forms a good edging for flowerbeds or walks.

**Double Curled**—An attractive dwarf variety, with finely curled, moss like leaves of bright green color. Excellent for garnishing.

Pkt. 10c Oz. 15c  $\frac{1}{4}$  lb. 35c 1 lb. \$1.00



**Hamburg**—(Turnip Rooted.) Edible roots, resemble small parsnips. Extensively used for flavoring soups and stews. Leaves plain, deeply cut.

Pkt. 10c Oz. 15c  $\frac{1}{4}$  lb. 35c 1 lb. \$1.00

**Moss Curled**—A vigorous growing, compact, very productive variety. Finely cut, thickly curled, leaves are of a very dark green color, excellent for home and market garden.

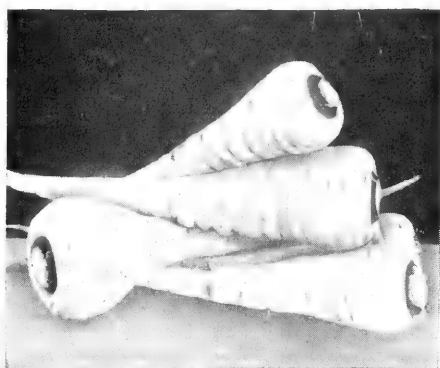
Pkt. 10c Oz. 15c  $\frac{1}{4}$  lb. 35c 1 lb. \$1.00

**Plain or Single**—Also known as Hardy Italian. Used largely for seasoning, not so attractive for garnishing. Large, plain, dark green, flat, deeply cut leaves.

Pkt. 10c Oz. 15c  $\frac{1}{4}$  lb. 35c 1 lb. \$1.00

## Parsnip

Make the soil very fine and plant the seed very early, in rows eighteen inches apart, thinning plants to three or five inches in the rows, seeds should be covered about one-half inch deep. Parsnips, aside from table use, have great value for stock-feeding purposes. Are improved by allowing to remain in open ground through the winter. One ounce to 150 feet of drill; five pounds for one acre.



**Ideal Hollow Crown**—Attractive medium-long smooth white roots. Tender and of fine flavor. Very free from side roots.

Pkt. 10c Oz. 15c  $\frac{1}{4}$  lb. 40c 1 lb. \$1.25

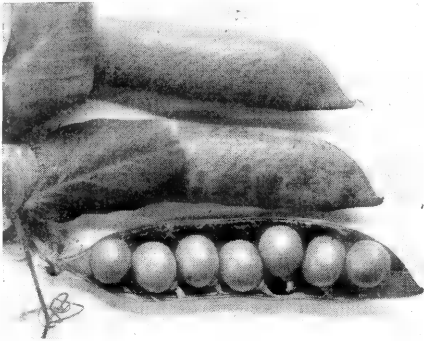
**Long Smooth White**—A wonderful cropper. Roots 12 to 15 inches long,  $2\frac{1}{2}$  to 3 inches thick at shoulder. A hardy variety, grown largely for stock.

Pkt. 10c Oz. 15c  $\frac{1}{4}$  lb. 40c 1 lb. \$1.25



## Peas

The wrinkled varieties, while the sweetest of all peas, are more liable to rot, being tender, and need to be planted thicker and later than the round, hard sorts. Soil needs to be well fertilized. Have the dwarf varieties in rows two and one-half feet apart; those kinds growing two or three feet high, in rows three feet apart, and the tallest in rows four feet apart. The smooth varieties may be sown as soon as ground can be worked; the wrinkled sorts when soil is well warmed. One quart to 100 feet of drill; one and one-half bushels to an acre.



Suttons Excelsior

### SMOOTH ROUND SEEDED VARIETIES

**Alaska**—A very early variety, slender light green vines from 2 to 2½ feet high. Pods contain 6 to 8 small bluish green peas.

1 lb. 30c 2 lbs. 50c 5 lbs. \$1.00 10 lbs. \$1.70  
15 lbs. or more at 15c lb.

**East Hartford Extra Early**—An extra early variety growing 2½ ft. tall. The vines are very productive, carrying an abundance of well-filled pods containing small luscious peas.

1 lb. 30c 2 lbs. 50c 5 lbs. \$1.00 10 lbs. \$1.70  
15 lbs. or more at 15c lb.

### WRINKLED SEEDED VARIETIES

**Dwarf Alderman**—(Improved Dwarf Telephone.) A late larger podded productive sort. Very popular home and market garden variety.

1 lb. 30c 2 lbs. 50c 5 lbs. \$1.10 10 lbs. \$1.80  
15 lbs. or more at 16c lb.

**Gradus**—(World's Record Strain.) Popular variety, growing about 2½ ft. tall and bearing an enormous crop of nearly straight pods 3½ to 4 inches in length containing 6 to 8 large peas of a very good flavor, can be planted nearly as early as the smooth varieties.

1 lb. 30c 2 lbs. 50c 5 lbs. \$1.10 10 lbs. \$1.80  
15 lbs. or more at 16c lb.

**Hundredfold**—One of the best known early dwarf large podded sorts. Very prolific and attractive. Popular with home and market gardeners because it bears a heavy crop of excellent quality.

1 lb. 30c 2 lbs. 50c 5 lbs. \$1.10 10 lbs. \$1.90  
15 lbs. or more at 17c lb.

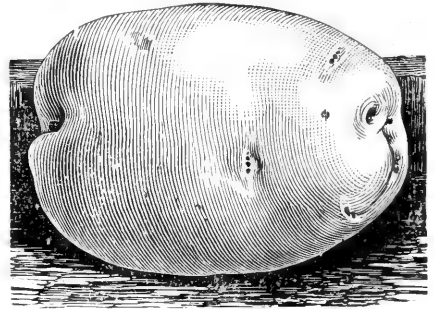
**Suttons Excelsior**—An improvement of Nott's Excelsior, with large pods and greater productiveness. Height 16 inches.

1 lb. 30c 2 lbs. 50c 5 lbs. \$1.10 10 lbs. \$1.80  
15 lbs. or more at 16c lb.

**Telephone Tall**—A giant podded, mid-season variety. Vines 4½ to 5 ft., color dark green. Immensely productive and of the finest quality.  
1 lb. 30c 2 lbs. 50c 5 lbs. \$1.10 10 lbs. \$1.80  
15 lbs. or more at 16c lb.

**Thomas Laxton**—A popular medium early variety. Vines 2½ to 3 feet, medium dark green with dark green pods 3½ in. long containing 7 to 8 large, tender peas of very good quality.  
1 lb. 30c 2 lbs. 50c 5 lbs. \$1.10 10 lbs. \$1.90  
15 lbs. or more at 17c lb.

## Potatoes



### IT PAYS TO PLANT NORTHERN GROWN CERTIFIED SEED POTATOES

Keep your own costs down by raising more bushels per acre, and this can be done by planting Northern Grown Certified Seed.

Seed from the North comes to you with a vigor which your home grown seed does not possess. This fact is recognized by successful potato growers.

We sell certified seed and we select our seed from farms that have produced full crops, that show a low disease count, and finally are stored, handled and shipped by men whose business is seed and have pride in their product.

While the cost of Northern grown seed potatoes is somewhat higher at the time our catalogue goes to press than last year, no grower should make the mistake of planting his home grown seed.



John Deere General Purpose Tractor with Potato Cultivator and Hoe.

**FOR BEST RESULTS USE  
O.&W. POTATO FERTILIZER**



## Peppers

Should be started in hotbeds, and transplanted into open ground by end of May; set in rows eighteen inches apart and plants about twelve inches apart in the rows. One ounce of seed will produce about 3000 plants.



**Ruby King**

**Bull Nose or Large Bell**—A standard early sweet variety. Plants small and erect. Fruits 3 to 3½ inches long and 3 inches thick. Deep green changing to scarlet red; mild flavor.

Pkt. 10c Oz. 40c ¼ lb. \$1.25 1 lb. \$4.00

**Bull Nose Hot**—A popular medium sized hot variety.

Pkt. 10c Oz. 40c ¼ lb. \$1.25 1 lb. \$4.00

**California Wonder**—One of the finest mild flavored early large varieties. Crisp, tender and sweet. Original color dark green, changing to crimson when ripe.

Pkt. 10c Oz. 40c ¼ lb. \$1.25 1 lb. \$4.00

## HOTKAPS—An Individual Hothouse for Every Plant!

**Harris Early Giant**—A large early sweet variety. Plants very productive, bearing 12 to 14 fruits, resembles Bull Nose.

Pkt. 10c Oz. 40c ¼ lb. \$1.25 1 lb. \$4.00

**Large Red Cherry**—A smooth, round, hot sort. Very productive. Popular for use in pickles.

Pkt. 10c Oz. 40c ¼ lb. \$1.25 1 lb. \$4.00

**Large Squash**—A thick flesh early hot variety.

Pkt. 10c Oz. 50c ¼ lb. \$1.50 1 lb. \$5.00

**Long Red Cayenne**—A favorite early hot sort, used principally for canning. Conical shaped 3½ to 4½ inches long, 1 inch through, deep green changing to bright red.

Pkt. 10c Oz. 50c ¼ lb. \$1.50 1 lb. \$5.00

**Neapolitan**—(Sweet Italian.) A very early, medium large sweet variety. Fruits yellowish green, becoming bright red.

Pkt. 10c Oz. 40c ¼ lb. \$1.25 1 lb. \$4.00

**Ruby King**—A large, early, sweet favorite for home or market garden. Thick flesh, deep green becoming red when ripe.

Pkt. 10c Oz. 40c ¼ lb. \$1.25 1 lb. \$4.00

**Windsor A**—New early thick meaty variety very prolific and of good flavor.

Pkt. 10c Oz. 40c ¼ lb. \$1.30 1 lb. \$4.50

**World Beater**—A cross between Chinese Giant and Ruby King. Very popular with market gardeners. Flesh thick, mild and very sweet.

Pkt. 10c Oz. 40c ¼ lb. \$1.25 1 lb. \$4.00

## Pumpkin

Sow in good soil the latter part of May when ground has become warm, in hills 8 ft. apart each way. Cover seed about 1 inch. May be sown in fields with corn by dropping 2 or 3 seeds in every fourth hill.



**Small Yellow Sugar**—A small round early sort extensively grown by home and market gardeners. Fruits 8 to 10 inches in diameter, weighing 6 to 8 lbs. Smooth, deep orange skin; flesh yellow orange. Best for pies.

Pkt. 10c Oz. 15c ¼ lb. 30c 1 lb. 80c

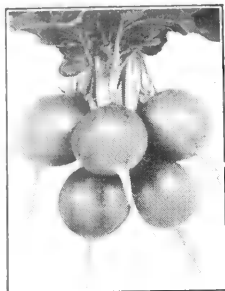
**Large Cheese**—Shaped flat like a cheese box. Grow large, weighing 9 to 10 lbs. Very popular with market gardeners. Flesh yellow, very thick, and of fine quality.

Pkt. 10c Oz. 15c ¼ lb. 30c 1 lb. 80c

**Connecticut Yellow Field**—A large, smooth, hard surface, slightly oval variety. Used extensively for canning, popular for pies, and excellent for stock feeding.

Pkt. 10c Oz. 15c ¼ lb. 25c 1 lb. 75c

## Radish



For early use sow in spring as soon as ground can be worked. Sow in drills six to ten inches apart and thin out to one inch apart in the rows, as the roots are more tender and brittle when grown quickly, a rich light soil is preferred. For a succession sow every two weeks. One ounce will sow 100 feet of drill; eight pounds for an acre.

Quantity discount 5 lbs. or more **10c lb.**

**Glowing Ball**—One of the very earliest round forcing varieties. Bright scarlet skin, white crisp flesh.

Pkt. 10c Oz. 15c  $\frac{1}{4}$  lb. 40c 1 lb. \$1.25

**Early Scarlet Turnip**—A standard early round sort. Red with small white tip. Crisp and mild. Popular for forcing or outdoor culture.

Pkt. 10c Oz. 15c  $\frac{1}{4}$  lb. 25c 1 lb. 85c

**Early Scarlet Globe**—Equally valuable for outdoor planting or forcing under glass. Globe shaped. Skin bright scarlet. Flesh white, tender and fine quality.

Pkt. 10c Oz. 15c  $\frac{1}{4}$  lb. 25c 1 lb. 85c

**French Breakfast**—An early rich scarlet white tipped, oblong variety. Develops best under glass, but does well in outdoor culture.

Pkt. 10c Oz. 15c  $\frac{1}{4}$  lb. 40c 1 lb. \$1.25

**Giant White Stuttgart**—A popular summer and fall variety. Smooth, white top shaped roots 3 to 4 inches in diameter.

Pkt. 10c Oz. 15c  $\frac{1}{4}$  lb. 30c 1 lb. \$1.00

**Rose China**—A popular winter sort. Roots 4 to 5 inches long, 2 inches in diameter at shoulder. Skin is deep rose red color. Flesh white, firm and pungent.

Pkt. 10c Oz. 15c  $\frac{1}{4}$  lb. 30c 1 lb. \$1.00

**Round Black Spanish**—A round winter variety somewhat top-shaped, 3 to 4 inches in diameter. Skin black, flesh white. An excellent keeper.

Pkt. 10c Oz. 15c  $\frac{1}{4}$  lb. 30c 1 lb. \$1.00

**Long Black Spanish**—One of the best keeping winter varieties. Roots 7 to 9 inches long, 2 to 2½ inches in diameter. Skin very dark purple, almost black, somewhat wrinkled. Flesh is white, solid and pungent.

Pkt. 10c Oz. 15c  $\frac{1}{4}$  lb. 30c 1 lb. \$1.00

**Long White Icicle**—Pure white roots, 5 to 5½ inches long and 1 inch thick, tapering at the tip. Suitable for forcing or outdoor culture. Mild flavor.

Pkt. 10c Oz. 15c  $\frac{1}{4}$  lb. 30c 1 lb. \$1.00

**White Turnip**—The earliest white variety. Small turnip shaped roots. Clear white throughout. Tender.

Pkt. 10c Oz. 15c  $\frac{1}{4}$  lb. 25c 1 lb. 85c.

## Rhubarb

Propagate from roots in richly prepared soil. Plants should be set five feet apart.

**Victoria Giant**—A very prolific sort with straight stalks of crimson color and delicious flavor. Excellent for pies, preserving, etc.

**25c a root.**

Special price in large quantities.

## Salsify or Vegetable Oyster

Sow early in spring in light rich soil in drills fourteen inches apart and thin out to three inches apart in the row. The roots will be ready for use in October. When cooked the flavor resembles the oyster.

**Sandwich Island Mammoth**—This variety grows to an unusually large size. Roots 6 to 8 inches long, 1½ inches thick, tapering.

Pkt. 10c Oz. 25c  $\frac{1}{4}$  lb. 65c 1 lb. \$2.00

## Spinach

For very early spring use sow in August, for summer use sow in early spring, in drills about ten or twelve inches apart, covering the seed one inch deep. To obtain a succession sow at intervals of two weeks through the season. One ounce to 100 feet of drill, 10 pounds to one acre.

**Savoy Leaved Reselected**—(Dark Green.) A popular quick growing variety for spring or fall sowing, runs to seed quickly in summer. Extra dark thick leaves, finely curled.

Oz. 10c  $\frac{1}{4}$  lb. 30c  $\frac{1}{2}$  lb. 55c 1 lb. \$1.00  
5 lbs. \$4.50 10 lbs. \$8.50  
15 lbs. or more at 80c lb.

**Savoy Leaved Long Standing**—Improved savoy type, best for late spring and summer sowing. Only a few days later than reselected savoy, it stands a week or more longer before going to seed.

Oz. 10c  $\frac{1}{4}$  lb. 30c  $\frac{1}{2}$  lb. 55c 1 lb. \$1.00  
5 lbs. \$4.50 10 lbs. \$8.50  
15 lbs. or more at 80c lb.

**Savoy Leaved Blight Resisting**—A very special strain, developed for blight resistance. Vigorous plants and very hardy. Best variety for fall planting and to winter over. Runs to seed quickly if sown at other seasons.

Oz. 10c  $\frac{1}{4}$  lb. 30c  $\frac{1}{2}$  lb. 55c 1 lb. \$1.00  
5 lbs. \$4.50 10 lbs. \$8.50  
15 lbs. or more at 80c lb.

**Summer Savoy**—Quick growing long standing dark green savoy type for summer use.

Oz. 10c  $\frac{1}{4}$  lb. 30c  $\frac{1}{2}$  lb. 55c 1 lb. \$1.00  
5 lbs. \$4.50 10 lbs. \$8.50  
15 lbs. or more at 80c lb.

**Old Dominion**—A cross between Savoy Leaved Blight Resisting and King of Denmark. New long standing variety for summer and fall sowing.

Oz. 10c  $\frac{1}{4}$  lb. 30c  $\frac{1}{2}$  lb. 55c 1 lb. \$1.00  
5 lbs. \$4.50 10 lbs. \$8.50  
15 lbs. or more at 80c lb.

**Nobel Giant**—(Giant Thick Leaved.) A popular viroflay type. Plants very vigorous and spreading with large thick, smooth, deep green leaves.

Oz. 10c     $\frac{1}{4}$  lb. 30c     $\frac{1}{2}$  lb. 55c    1 lb. \$1.00  
5 lbs. \$4.50                      10 lbs. \$8.50  
15 lbs. or more at 80c lb.

**King of Denmark**—Exceptionally long standing variety. Large, slow growing plants with broad, rounded, dark green leaves, somewhat blistered. Excellent for spring planting.

Oz. 10c     $\frac{1}{4}$  lb. 30c     $\frac{1}{2}$  lb. 55c    1 lb. \$1.00  
5 lbs. \$4.50                      10 lbs. \$8.50  
15 lbs. or more at 80c lb.

**Princess Juliana**—Improved long season summer spinach. Compact plants with large, thick, crumpled, rounded leaves. Fine for home and market gardens.

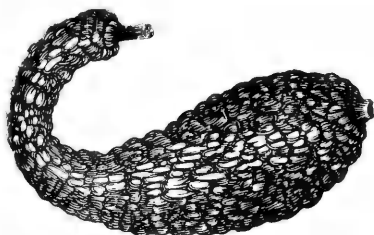
Oz. 10c     $\frac{1}{4}$  lb. 30c     $\frac{1}{2}$  lb. 55c    1 lb. \$1.00  
5 lbs. \$4.50                      10 lbs. \$8.50  
15 lbs. or more at 80c lb.

**New Zealand**—A distinct variety, thrives on most any soil in hot, dry weather. Large spreading plants, with small, broad, pointed leaves. The tender leafy shoots may be picked repeatedly throughout the summer.

Oz. 10c     $\frac{1}{4}$  lb. 30c     $\frac{1}{2}$  lb. 55c    1 lb. \$1.00

## Squash

Requires rich, warm soil. Plant in hills nine to ten feet apart for running varieties, and five or six feet apart for bush sorts. Leave two or three plants to a hill. Cultivate frequently. One ounce will sow twenty to forty hills; two to four lbs. per acre.



Summer Crookneck

### SUMMER VARIETIES

**Cocozelle or Italian Vegetable Marrow**—(Bush.) Very attractive, dark green marbled with yellow and lighter green stripes. Grows 18 to 20 inches long and 4 inches in diameter if left to mature. Best if picked when 5 or 6 inches in length.

Pkt. 10c    Oz. 15c     $\frac{1}{4}$  lb. 45c    1 lb. \$1.30

**Early Summer Crookneck**—Very prolific. Extensively used by home and market gardeners. Warty orange yellow skin with thick light yellow flesh.

Pkt. 10c    Oz. 15c     $\frac{1}{4}$  lb. 35c    1 lb. \$1.00

**Early Prolific Straightneck**—High yielding small size creamy yellow color.

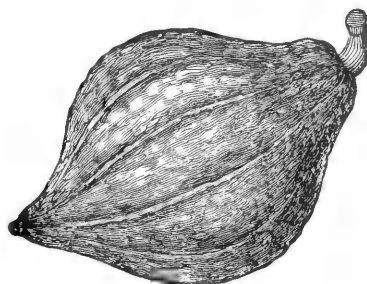
Pkt. 10c    Oz. 15c     $\frac{1}{4}$  lb. 45c    1 lb. \$1.50

**Early Summer Straightneck**—Conn. strain, medium size. Cream Yellow. Finest quality and popular with housewives as it is easier to prepare than the crookneck.

Pkt. 10c    Oz. 15c     $\frac{1}{4}$  lb. 40c    1 lb. \$1.25

**Giant Summer Straightneck**—A new sort. Selected from Crookneck varieties. Most popular with market gardeners. Its superiority lies in its straightness which permits easy packing.

Pkt. 10c    Oz. 15c     $\frac{1}{4}$  lb. 40c    1 lb. \$1.25



Hubbard

### WINTER VARIETIES

**Blue Hubbard**—Bluish gray skin. Bright yellow, thick, fine grained flesh of good quality. A good keeper.

Pkt. 10c    Oz. 15c     $\frac{1}{4}$  lb. 40c    1 lb. \$1.35

**Golden Hubbard**—Earlier than other Hubbard varieties. Fruits slightly smaller. Skin is a light golden yellow and warted. Flesh deep golden yellow.

Pkt. 10c    Oz. 15c     $\frac{1}{4}$  lb. 45c    1 lb. \$1.50

**Improved Green Hubbard**—The most popular home and market garden sort. Pointed at both ends. Tough, deep green skin slightly warted. Flesh orange yellow, very thick, fine grained.

Pkt. 10c    Oz. 15c     $\frac{1}{4}$  lb. 40c    1 lb. \$1.25

**Boston Marrow**—A popular, late fall variety. Resembling Hubbard in size and shape. Hard, deep orange skin somewhat rough with thick yellow flesh.

Pkt. 10c    Oz. 15c     $\frac{1}{4}$  lb. 35c    1 lb. \$1.00

**Golden Delicious**—Fruits top-shaped. Color bright orange, with green tip. Flesh, golden orange, sweet and dry.

Pkt. 10c    Oz. 15c     $\frac{1}{4}$  lb. 40c    1 lb. \$1.30

**Mammoth Chili**—Largest of all varieties, growing upwards of 100 lbs. Skin mottled deep orange and yellow. Flesh thick, stringy and coarse. Grown for stock feeding and exhibition purposes.

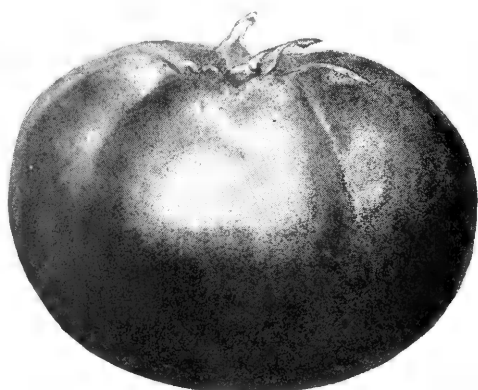
Pkt. 10c    Oz. 15c     $\frac{1}{4}$  lb. 40c    1 lb. \$1.35

**Table Queen**—An excellent table variety. Small acorn shaped fruits with thin dark green shell and light yellow flesh. Bakes dry and sweet.

Pkt. 10c    Oz. 15c     $\frac{1}{4}$  lb. 40c    1 lb. \$1.35

## Tomato

Sow the seed in March or April in hot-bed. Transplant when plants are five inches high to open ground, after danger from frost has passed. Should be set four feet apart each way, on mounds of earth, to allow foliage to open and sun to reach the fruit.



**Ponderosa**

### EARLY VARIETIES

**Bonny Best**—A general purpose variety, valuable for forcing, bear in clusters. Medium sized, smooth, bright scarlet red, flattened globe-shaped fruits.

Pkt. 10c Oz. 40c  $\frac{1}{4}$  lb. \$1.20 1 lb. \$4.00

**Earliana**—An extra bright red, medium sized tomato. Nearly round, flesh and solid. Popular with home and market gardeners.

Pkt. 10c Oz. 40c  $\frac{1}{4}$  lb. \$1.20 1 lb. \$4.00

**Pritchard**—A scarlet, self-topping disease-resistant variety developed by Dr. F. T. Pritchard of the U. S. Dept. of Agriculture. Fruits are large, smooth, globular shaped, with solid, thick walls. Color a bright scarlet. Valuable for market garden use.

Pkt. 10c Oz. 40c  $\frac{1}{4}$  lb. \$1.20 1 lb. \$4.00

### MAIN CROP VARIETIES

**Dwarf Champion**—Plant of dwarf tree type, with very dark green leaves. Can be planted closer together. Medium size, nearly round, purplish-pink, solid fruits.

Pkt. 10c Oz. 40c  $\frac{1}{4}$  lb. \$1.20 1 lb. \$4.00

**Marglobe**—A heavy producer of medium sized, smooth, deep globe shaped, bright red fruits. Popular with market gardeners.

Pkt. 10c Oz. 40c  $\frac{1}{4}$  lb. \$1.20 1 lb. \$4.00

**Ponderosa**—Largest purplish-pink variety grown. Fruits somewhat flat with very thick, solid flesh, and a small seed cavity. Delightful mild flavor.

Pkt. 10c Oz. 45c  $\frac{1}{4}$  lb. \$1.35 1 lb. \$4.50

**Rutgers**—Globe shaped, scarlet-red color, resembling Marglobe. Has thick outer and inner walls of solid meat with a small seed cavity. An excellent new variety.

Pkt. 10c Oz. 45c  $\frac{1}{4}$  lb. \$1.35 1 lb. \$4.50

**Stone**—One of the best table varieties. Somewhat flattened, solid, smooth, medium sized fruits. Vines grow large and are very productive.

Pkt. 10c Oz. 40c  $\frac{1}{4}$  lb. \$1.10 1 lb. \$3.50

**Yellow Plum**—Used for preserves. Small yellow fruits about 2 inches long and 1 inch thick, shaped like a plum.

Pkt. 10c Oz. 50c  $\frac{1}{4}$  lb. \$1.50

## For 1 Acre or a Hundred HOTKAPS Pay



**HOTKAPS** protect growing plants, increase yields, mature crops 2 to 3 weeks earlier, insure premium prices.

## Turnip

For early varieties sow as soon as the ground can be worked in spring. For fall and winter use, seed should be sown from the middle of July to middle of August, seed generally sown broadcast, using one pound to the acre.



**Purple Top Strap Leaf**

Quantity discount 5 lbs. or more 10c lb.

### WHITE FLESHED VARIETIES

**Early Purple Top Milan**—A very early variety. Good for forcing, as well as garden cultivation. Roots medium size, very flat with small tap root.

Pkt. 5c Oz. 15c  $\frac{1}{4}$  lb. 30c 1 lb. \$1.00

**Purple Top Strap Leaf**—A medium early home and market garden variety. Roots white with purple tops, flat, about 5 inches across.

Pkt. 5c Oz. 10c  $\frac{1}{4}$  lb. 25c 1 lb. 75c

**Purple Top White Globe**—The most popular white variety for general cultivation. Globe shaped, roots grow 5 to 6 inches in diameter. Best for table use when about 3 inches.

Pkt. 5c Oz. 10c  $\frac{1}{4}$  lb. 20c 1 lb. 65c

**White Egg**—A quick growing sort. Roots egg-shaped 3 inches long and about 2½ inches thick. Thin skin. Grows nearly half above ground.

Pkt. 5c Oz. 10c ¼ lb. 25c 1 lb. 75c

### YELLOW FLESHED VARIETIES

**Golden Ball**—Recommended for home and market gardens. A good keeper. Round roots about 4 inches in diameter, deep yellow color with light yellow flesh.

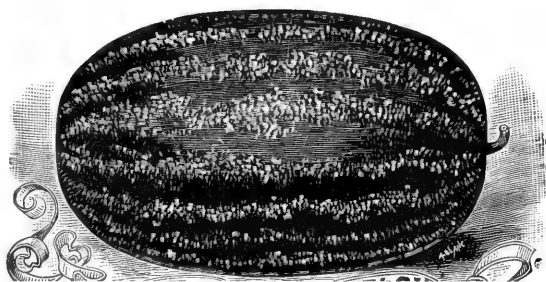
Pkt. 5c Oz. 10c ¼ lb. 25c 1 lb. 75c

**Large Yellow Globe**—A very popular table variety but usually grown for stock. Flesh firm and of good quality. Very tender and sweet if pulled before full grown.

Pkt. 5c Oz. 10c ¼ lb. 25c 1 lb. 75c

## Watermelon

A warm light sandy loam preferred. Being tender should not be planted before middle of May. Plant in hills 8 feet apart each way. Cover seeds about one-half inch deep and when well started thin out to 3 plants in a hill. One ounce will plant about 15 hills; 4 pounds to the acre.



Ice Cream

**Cole's Early**—A popular extra early variety; fruit 12 inches long and 11 inches in diameter. Very good quality. Thin brittle rind, green striped skin. Bright red flesh with black seeds.

Pkt. 10c Oz. 15c ¼ lb. 30c 1 lb. \$1.00

**Ice Cream**—One of the most popular early home garden sorts. Thin rind, medium green skin. Flesh rich scarlet, very sweet, seeds white.

Pkt. 10c Oz. 15c ¼ lb. 30c 1 lb. \$1.00

**Kleckley's Sweets**—A large, medium oblong shaped melon with thin rind. Dark bluish-green skin and delicious sweet, bright scarlet flesh, seeds white.

Pkt. 10c Oz. 15c ¼ lb. 30c 1 lb. \$1.00

**Stone Mountain**—Large medium early. Oval to round shaped smooth thin skin, light green in color, flesh is deep crimson of very fine flavor.

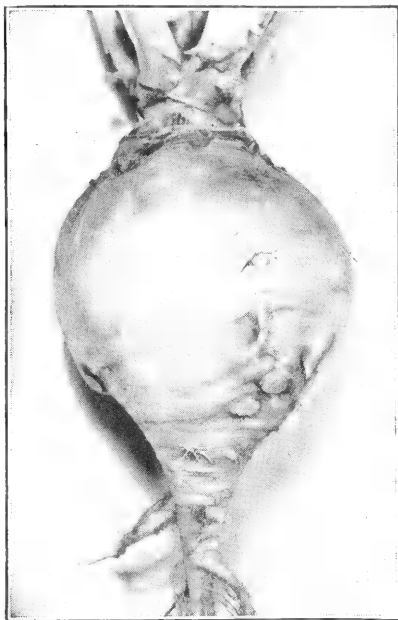
Pkt. 10c Oz. 15c ¼ lb. 30c 1 lb. \$1.00

**Citron**—(Red Seeded.) Round melon 8 to 12 inches in diameter. Skin medium green striped with darker green. White flesh, very firm. Used only for preserves.

Pkt. 10c Oz. 15c ¼ lb. 30c 1 lb. \$1.00

## Ruta-Baga or Swedish Turnip

Seed should be sown in drills 18 to 24 inches apart and plants thinned out to 6 inches apart in rows.



White Rock

**Improved Long Island or American Purple Top**—A popular home and market garden variety. Large globular roots, purple above ground, yellow below, short neck, a good keeper.

Pkt. 5c Oz. 10c ¼ lb. 25c 1 lb. 80c

**Macomber**—White Flesh, the sweetest Ruta Baga.

Oz. 15c ¼ lb. 45c 1 lb. \$1.25

**White Rock or Sweet German**—Very productive. Large white globular roots with bronze green top.

Oz. 10c ¼ lb. 30c 1 lb. \$1.00

## Herbs

**Sage**—A hardy grey-green perennial, with pleasant aromatic odor. Used for seasoning.

Pkt. 10c ½ oz. 25c Oz. 40c

**Summer Savory**—A hardy annual. Used for flavoring.

Pkt. 10c ½ oz. 20c Oz. 30c

**Sweet Basil**—An aromatic annual used in seasoning. Has strong sweet flavor.

Pkt. 10c Oz. 20c

**Sweet Marjoram**—A tender perennial, mostly grown as an annual. Used for flavoring soups, dressings, etc.

Pkt. 10c ½ oz. 20c Oz. 35c

**Thyme, Broad Leafed**—A dwarf perennial. Aromatic leaves and shoots used for seasoning and in medicinal preparations.

Pkt. 10c ½ Oz. 30c Oz. 50c



## The Value of a Fine Lawn

A fine lawn is a profitable investment. It represents a real addition to the value of your property and unquestionably repays you richly in the enjoyment you derive from its beauty and its actual, though unappraisable, financial worth.

## Choice of Seed

Avoid cheap lawn mixtures as they are apt to contain noxious weeds, hulls, chaff and excessive inert matter.

A good lawn grass mixture should be composed of nothing but true turf grasses in the right proportions, carefully re-cleaned. The cost of the seed is the smallest item in the making of a good lawn; it pays to plant good seed.

Our lawn mixtures are all composed of heavy, re-cleaned, high germination seeds, can be furnished with or without White Clover and weigh about 35 lbs. to the bushel.

**O. & W. Superfine Lawn Grass Mixture** — All that the name implies—composed entirely of the fine, slow growing grasses which produce a soft, velvety, permanent lawn, firm turf and desirable color.

1-lb. carton 50c    5-lb. bag \$2.25    10-lb. bag \$4.30  
25-lb. bag \$10.50    50-lb. bag \$20.50

**O. & W. Special Lawn Grass Mixture**—A superior mixture of the best and cleanest grades of seed. The varieties which it contains are best adapted to general lawn purposes.

1-lb. carton 40c    5-lb. bag \$1.75    10-lb. bag \$3.30  
25-lb. bag \$8.00    50-lb. bag \$15.50

**O. & W. Quicklawn Grass Mixture**—A quick growing mixture containing some grasses which produce immediate growth forming a nurse crop for the finer grasses which are slower growing.

1-lb. carton 35c    5-lb. bag \$1.45    10-lb. bag \$2.80  
25-lb. bag \$6.75    50-lb. bag \$13.00

In spots shaded by trees or buildings, give special attention to fertilizing and watering. Sow a special shady place grass mixture. Remember that trees draw heavily on the food and water in the soil, so extra quantities of both must be provided to keep the grass supplied.

**O. & W. Shady Dell Lawn Grass Mixture**—The best selection of fine grasses which thrive under shade of trees or between buildings where there is little sun.

1-lb. carton 55c    5-lb. bag \$2.50    10-lb. bag \$4.80  
25-lb. bag \$11.75    50-lb. bag \$23.00

# O. & W. High Grade Fertilizers and Fertilizing Materials For Lawns, Gardens, Flowers, Shrubbery, Etc.

Notice: Prices are subject to market changes



Is a scientific blending of plant foods necessary to promote luxuriant growth of lawns, flowers, shrubs, vegetables, fruit and shade trees. **LUXURA** carries, in the right proportions, and from proper sources, Nitrogen, Phosphoric Acid and Potash, derived from both organic and inorganic materials, which promote a vigorous root system, sturdy stalk, abundant foliage and flowers. One application lasts all season.

1 lb. **25c** 5 lbs. **60c** 10 lbs. **95c** 25 lbs. **\$1.90**  
50 lbs. **\$3.25** 100 lbs. **\$5.50**

Special price on larger quantities.



**The Luxura Hand Plant Food Distributor**—For gardeners, florists, nurserymen, truckers, farmers, etc. It is a new, inexpensive time and labor saving device, also convenient for sowing lawn seed on small areas.

Price **\$1.00**

**O. & W. Garden Fertilizer 4-8-4**—Very popular with home and market gardeners.

5 lbs. **25c** 10 lbs. **40c** 25 lbs. **70c**  
50 lbs. **\$1.25** 100 lbs. **\$2.20**

Special price on larger quantities.

**O. & W. Lawn Fertilizer 4-8-4**—A complete mixture for old and new lawns.

5 lbs. **30c** 10 lbs. **45c** 25 lbs. **85c**  
50 lbs. **\$1.55** 100 lbs. **\$2.75**

Special price on larger quantities.



**Sheep Manure**—  
Sheep's Head Brand.  
Used for lawns and gardens. Does not analyze as high in plant food as our special mixtures.

5 lbs. **25c** 10 lbs. **45c** 25 lbs. **85c**  
50 lbs. **\$1.50** 100 lbs. **\$2.75**

Special price on larger quantities.

**Castor Pomace**—100 lb. bag **\$1.50**

Special price on larger quantities.

**Steamed Bone Meal**—Made from pure animal bone thoroughly steamed and pulverized. Finest quality.

5 lbs. **30c** 10 lbs. **50c** 25 lbs. **90c**  
50 lbs. **\$1.65** 100 lbs. **\$3.00**

Special price on larger quantities.

**Raw Bone Meal**—Finely ground, valuable for lawns, shrubs and trees.

5 lbs. **35c** 10 lbs. **55c** 25 lbs. **95c**  
50 lbs. **\$1.75** 100 lbs. **\$3.20**

Special price on larger quantities.

**Superphosphate**—Guaranteed 16% available phosphoric acid. Recommended for land that is deficient in phosphoric acid.

5 lbs. **20c** 10 lbs. **30c** 25 lbs. **45c**  
50 lbs. **75c** 100 lbs. **\$1.15**

Special price on larger quantities.

**Hydrated Lime**—Used for sweetening the soil. Very beneficial to all clovers.

5 lbs. **15c** 10 lbs. **25c** 25 lbs. **40c**  
50 lbs. **50c** 100 lbs. **90c**

Special price on larger quantities.

**Humus**—Is in no way intended to act as a chemical fertilizer. It is a soil-builder. It is not sold as a plant stimulant, but is a first aid in the use of fertilizers. Works very well in seed beds.

5 lbs. **20c** 10 lbs. **30c** 25 lbs. **50c**  
50 lbs. **85c** 100 lbs. **\$1.50**

Special price on larger quantities.

**Nitrate of Soda**—Guaranteed 16% Nitrogen. Used as a stimulant for all plants. Must be used with great care.

5 lbs. **25c** 10 lbs. **45c** 25 lbs. **85c**  
50 lbs. **\$1.50** 100 lbs. **\$2.75**

Special price on larger quantities.

**Sulphate of Ammonia**—20.5% nitrogen. Can be used for forcing quick growth in lawns.

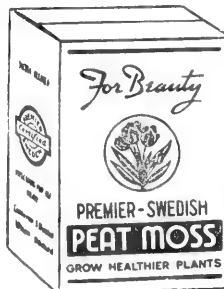
100 lb. bag **\$2.95**

Special prices on larger quantities.

**Sterilized Ground Tobacco Stems**—Very beneficial for lawns.

143-lb. bag **\$2.25**

Special price on larger quantities.



**Premier Peat Moss** is vacuum cleaned. It keeps soil friable, allows plants to breathe, stores plant food, absorbs and holds moisture.

Carton app. 1 bu. **75c**  
Bag app. 2½ bu. **\$1.50**  
Large bale **\$4.00**

Special price for larger quantities.

**Salt**—(Agricultural.) Used for asparagus beds, walks and driveways to kill weeds. Also used to melt ice on sidewalks, etc.

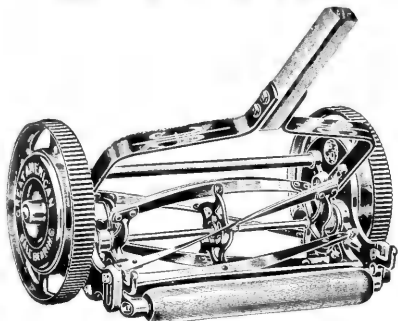
5 lbs. **15c** 10 lbs. **25c** 25 lbs. **50c**  
50 lbs. **75c** 100 lbs. **\$1.25**

Special price on larger quantities.



# PENNSYLVANIA

QUALITY  
LAWN MOWERS



**Great American Ball Bearing**—This is the best all around mower of its type made. One of the greatest sellers of all time.

Prices: 15-inch—\$16.95      17-inch—\$18.25  
19-inch—\$19.45      21-inch—\$20.95

**Pennsylvania Meteor**—Aluminum, 10 inch wheel, 5 blades, rubber tires.

Prices: 16-inch \$19.95      19-inch—\$21.95

**Pennsylvania Junior Ball Bearing** is everywhere recognized as the leading mower of the industry. It will cut cleanly all varieties of grasses.

Prices: 15-inch—\$22.75    17-inch—\$24.95  
19-inch—\$26.85    21-inch—\$28.75

**Big Boy**—Big in value and performance. Low in price. Rubber tires are removable and mower can be operated on metal wheels if desired.

Price: 16-inch—\$9.95

**Klifton High Wheel**—Five crucible steel blades, 6 inch cylinder. Automatic Spring adjustment on cones, spring steel lower blade.

Price: 18-inch—\$9.00

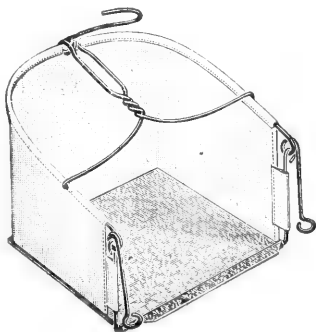
**Olds & Whipple Special**—A popular household mower at a fair price, which will give service and satisfaction.

Price: 14-inch—\$7.00

**Pennsylvania Lawn Trimmer and Edger**—With this combination machine, equipped with a steel disc and a small plow, you can trim the overhanging grass along the edges of paths and flower beds.

Price: \$9.95

## The "Easy-Emptying" Grass Catcher



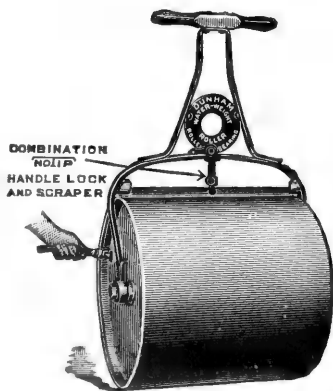
Lift It Off To Empty

Fits Any Lawn Mower Perfectly

Galvanized Steel bottoms, heavy Duck sides. Has New Improved Handle, Front Flange, Eye Bracket and Hook. Hook is permanently attached to catcher and hooks over handle of mower. Catcher is attached and detached instantly with one hand. Hook drops down parallel with handle. Guaranteed to give satisfaction.

Prices: 85c, \$1.10, \$1.25 and \$1.75 each

## Water Weight Lawn Rollers



At least one rolling a year is necessary to preserve a healthy turf. This should be done early in the spring, as soon as the ground is dry, to re-firm the soil about the roots after it has been loosened and heaved up by the freezing and thawing of winter. The roller should weigh 150 to 300 pounds, depending upon the texture of the soil.

The water weight lawn roller has almost entirely superseded the old-fashioned cast iron roller. By regulating the amount of water, it can be made to weigh as desired.

Diameter	Width	Weight Empty	Weight Full	Roller Bearing	Plain Bearing
14 in.	24 in.	68 lbs.	175 lbs.	\$11.00	\$ 9.00
18 in.	24 in.	82 lbs.	265 lbs.	12.00	10.50
24 in.	24 in.	110 lbs.	420 lbs.	15.00	13.50
24 in.	32 in.	130 lbs.	565 lbs.	18.00	



## It's a Pleasure to Keep Your Lawn Trim With

**VILLAGE BLACKSMITH**

### Handy Tools

Every item in the VILLAGE BLACKSMITH line is fashioned for the job. They are made up to a standard, not down to a price. However, prices are reasonable—in fact, cheap when value is considered.



## "Dollar" Lawn Sprinkler



Stands  $4\frac{3}{8}$  in. high. Base  $6\frac{1}{2}$  in. by  $7\frac{5}{8}$  in. Arms are  $4\frac{1}{2}$  in. long. In operation it gives a widely distributed uniform spray.

Special Price 75c

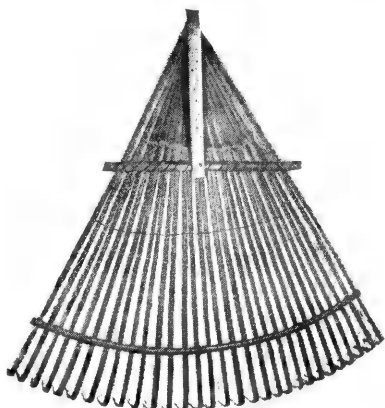
**RAIN KING SPRINKLERS**—Ideal for Golf Greens, parks, cemeteries and lawns. Model J with 75-lb. pressure covers a circle of 140 ft. across. **\$7.95.**

Model G **\$3.95**

Model D **\$2.85**

Many other makes from 50c up.

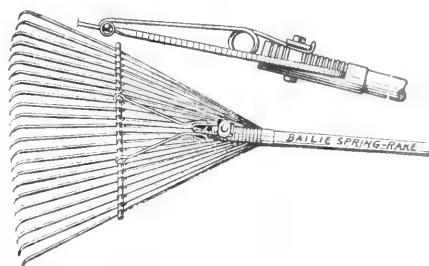
## Bamboo Lawn Rakes



Made of carefully selected bamboo, with heavy, uniform teeth, copper wired top and bottom, also reinforced bamboo cross piece. They have brass clamps and bolts and polished hard wood handles. Our bamboo lawn rakes are by far the best on the market and are vastly superior to the cheaper bamboo handle rakes.

24 in. spread      39 teeth      Price \$ .75

## Spring Rake



Designed to meet the demand for a rake that has both strength and flexibility. The teeth are NOT in holes but keyed in slotted tubes (known as ferrule and spacer) which prevents cutting and gives them complete freedom. Owing to its NON-RIGID construction more ground can be cleaned in less time and with greater ease—NOTE SPRING on back, this exclusive feature takes the strain and NOT THE TEETH.

Ideal for Lawns, Driveways, Cemeteries, Golf Courses and Parks.

Price: **\$1.75**

## Misc. Lawn Rakes

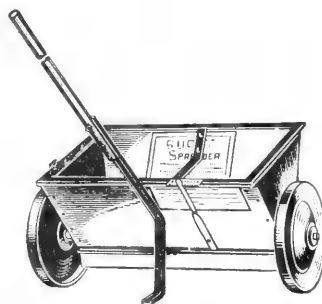
18-inch Lawn Comb (steel)	1.20
24 inch Lawn Comb (steel)	1.50
Stedman's improved (wood)	.95
Stedman's 2 bow (green tip)	.95
Crab Grass	.90-1.05-1.15

## Galvanized Water Sprinklers

Made of sheet steel and galvanized after being made. Will not leak or rust, furnished with removable zinc rose.

4 qt. 70c	6 qt. 75c	8 qt. 85c
10 qt. 95c	12 qt. \$1.10	16 qt. \$1.35

## Fertilizer Spreaders



For lawns, garden, parks, etc. A size for every need equipped with patented automatic shut-off control. Just lift the handle and flow of fertilizer stops.

Small model spreading width 18 in. hopper capacity 22 lbs.

Price is **\$3.45**

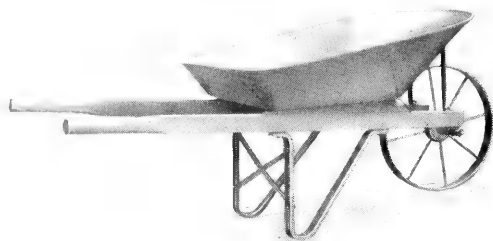
For average sized lawn and garden spreading width 22 in. hopper capacity 40 lbs.

Price is **\$6.95**

Large size for estates, country clubs, colleges, etc. spreading width 30 in. hopper capacity 80 lbs.

Price is **\$13.95**

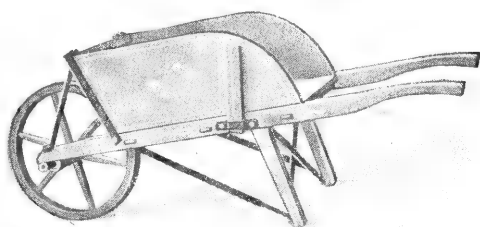
## Wood Frame Steel Tray General Purpose Barrow



For the contractor, farm, garden and home use. A well constructed barrow.

Price \$4.50

## Buch's Garden Barrow



**No. 1** is a strong, roomy wheelbarrow for farmer's use. Size of body, 30 inches long, 24 inches wide in front, 25 inches in back. Sideboards, 12 inches high.

Price \$8.50

**No. 2.** A durable, neat, medium-sized garden barrow. Size of body, 28 inches long, 20 inches wide in front, 24 inches wide at back. Sideboards, 12 inches high.

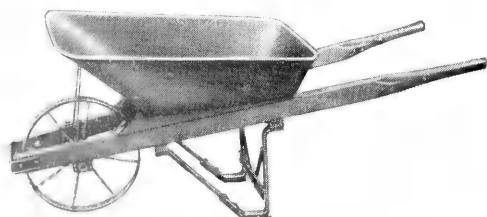
Price \$7.50

**No. 3.** Standard size garden barrow. Size of body, 26 inches long, 19 inches wide in front, 22 inches wide in back. Sideboards, 12 inches high.

Price \$7.00

All barrows are furnished with  $1\frac{3}{4}$  in. tread wheel. For  $2\frac{3}{4}$  in. tread wheel add 50c. Above barrows can be furnished with rubber tires.

## Buch's Mortar Barrow



**Trays**—One piece solid pressed steel No. 16 gauge, with edge turned over  $\frac{1}{4}$ -inch round iron.

No. 17B Capacity  $3\frac{1}{2}$  cu. ft. **\$7.50**

No. 154 Capacity 4 cu. ft. **7.75**

No. 176 Capacity 6 cu. ft. **9.50**

Above barrows can be furnished with rubber tires.

## Electric Hedge Trimmer



Every man with a hedge to cut will bless this amazing new electric tool. Just try it once and you'll never willingly use a hand shear again. Let us show you how it works.

Price \$29.50



Germaco

# Hotkaps



## Mature Your Crops EARLIER for BETTER PROFITS

These Plant Protectors Mean Larger, Earlier, Premium Crops

HOTKAPS ARE INEXPENSIVE

Germaco HOTKAPS come in rolls of 1,000 each, and in smaller special trial or garden packages. For field use, use the steel HOTKAP setter.

Prices on Germaco HOTKAPS:

1,000 or more	<b>\$10.75 per M</b>
5,000 or more	<b>10.50 per M</b>
10,000 or more	<b>10.25 per M</b>
25,000 or more	<b>10.00 per M</b>

Steel HOTKAPS setter and tamper **\$1.50**

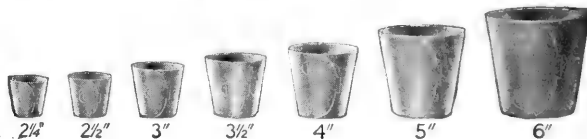
Garden setter (light metal) each **50c**

Steel Tamper, each **25c**

Special 100 package (contains 100 HOTKAPS, garden setter and tamper) **\$2.75**

Special 250 package (contains 250 HOTKAPS, garden setter and tamper) **\$4.00**

## Bird's IMPROVED NEPONSET Flower Pots



Every grower of plants, large or small, commercial or domestic, can cut his growing costs by using Bird Neponset Flower Pots.

Sizes from  $2\frac{1}{4}$ -in. to 6-in. inclusive.

Prices on application.

# List of Grass, Clover and Millet Seed

Market fluctuations prohibit publishing prices.

## Ask for Quotations

### LEGUME CROPS

**Alfalfa-Grimm—State Certified.** The highest grade of the hardest strains. Alfalfa requires well limed soil and good drainage. It furnishes more green forage, more pasture and more dry hay per acre than any other known variety of hay or grass. Sow 20 lbs. per acre. For best results, inoculate every seeding. Weight 60 lbs. per bushel.

**Clover-Alsike.** Is somewhat smaller in growth than red clover and the blossoms are pinkish white instead of red. Will thrive on poorer soil. Does not require lime and will produce well in damp spots. Sow 8 lbs. per acre. For best results, inoculate every seeding. Weight 60 lbs. per bushel.

**Clover—Mammoth Red.** This is a distinct type, similar to Medium Red in seed and blossom, but making a larger, coarser growth and a more extensive root system. It matures a little later and is at the best stage for cutting at the same time as Timothy. Sow 10 lbs. per acre. For best results inoculate every seeding. Weight 60 lbs. per bushel.

**Clover—Medium Red.** Is the most largely grown and most generally useful legume crop in America. In feeding value, the hay ranks next to Alfalfa. As a soil builder, it is the equal of any and superior to most. If sown with Timothy, the Clover usually predominates the first season and the Timothy the second season. After the second season the Clover largely disappears. Sow 10 lbs. per acre. For best results inoculate every seeding. Weight 60 lbs. per bushel.

**Clover—Sweet White Blossom.** It will grow in almost any climate and on almost any type of soil, thriving on land too poor for Alfalfa or Red Clover. It is a biennial. As hay or green forage, it ranks with Alfalfa in feeding value. Weight 60 lbs. per bushel. Sow 20 lbs. per acre.

**Clover—White Dutch.** Since it is low growing, it is not adapted for hay. It is used chiefly for pastures and lawns. Although perfectly hardy and not especially sensitive to conditions of soil moisture and drainage, White Clover must have lime. Weight 60 lbs. per bushel.

**Cow Peas.** They are coarse, bushy and spreading in growth. Since they require a long growing season and considerable warmth they are not adapted for growing in this climate. Weight 60 lbs. per bushel. Sow in drills, 1 bu. per acre.

**Field Peas—Canada.** Unlike Cow Peas, they do not need a long growing season but thrive best in a cool, moist climate. They are grown for hay, green forage and soil improvement, usually being seeded with Oats. Weight 60 lbs. per bushel. Sow 2 bu. per acre.

### GRASS SEEDS

**Timothy.** Has been for years the standard and most widely grown hay grass. Is a short-lived perennial; a stand does not last more than four or five years, yielding its best crop the year after it is sown. Weight 45 lbs. per bushel. Sow 12 lbs. per acre.

**Kentucky Blue Grass.** Requires two or three years to become well set. Once established it is checked by, but lives through, considerable drought. It is the most nutritious of American pasture grasses. Also largely used for lawns. Weight 14 lbs. per bushel. Sow 1½ to 2 bu. per acre.

**Canada Blue Grass.** Is less productive and slightly less palatable than Kentucky Blue Grass. On the other hand, it is hardier and will grow on poorer soil. Weight 14 lbs. per bushel. Sow 1 to 1½ bu. per acre.

**Red Top.** No other grass will grow under as great a variety of conditions as Red Top. It will thrive on almost every type of soil except sand. It grows rapidly and vigorously, forming a compact sod that persists under heavy grazing. It is also used for lawns. Weight (re-cleaned) 35 lbs. per bushel. Sow 15 lbs. per acre.

**Orchard Grass.** Is a long-lived perennial. It gets its name from its ability to grow in the partial shade of orchards and open wood lots. As a consequence, its principal use is for pasture and hay under shady conditions. Weight 14 lbs. to bushel. Sow 1½ to 2 bu. per acre.

**Rye Grass—Domestic.** (Perennial). Noted for its rapid growth. Is not especially productive but serves a very useful purpose in permanent mixtures because it sprouts and grows quickly, forming a cover while the slower growing grasses are getting established. Weight 24 lbs. to bushel. Sow 1 to 1½ bu. per acre.

**Rye Grass—Italian.** Slightly coarser than Domestic, annual variety, little used in the North.

**Chewings Fescue.** Of all the finer grasses, none will stand more hard wear and trampling. It grows on poor, dry, sandy soil; resists drought and does well in shaded places. Particularly fine for lawns. Sow 30 lbs. per acre.

**Poa Trivialis.** (Rough Stalked Meadow Grass). A fibrous rooted perennial, noted for its productivity and quick growth, doing best on rich, moist soils and in shaded places.

**Sudan Grass.** A quick-growing annual summer hay grass. It should largely supplant millet, which yields only a single cutting, whereas Sudan grass will give at least two.

**Astoria Bent.** A comparatively new and distinct kind of grass; seldom produces stolons but spreads from underground root stalks; produces splendid turf. Excellent for lawns and golf greens.

**Seaside Bent.** A stoloniferous grass. Used principally for golf purposes. Very good color. A most popular strain of Bent.

## MILLETS

These are quick-growing annual grasses, adapted to a wide range of soils and climates, but requiring a good supply of moisture at the start and warm weather throughout their short growing seasons.

**German Millet.** Also called Golden Millet. Stems heavier, leaves broader and coarser than common Millet. Requires a slightly longer and warmer growing season and a mellower soil. Ready to cut in about 65 days. Weight 48 lbs. per bushel. Sow 25 to 40 lbs. per acre.

**Hungarian Millet.** Sometimes incorrectly called "Hungarian Grass." An early variety. The hay is of excellent quality and the yield, under good conditions, averages 2 to 2½ tons per acre, ranking second in this respect to German Millet. Weight 48 lbs. per bushel. Sow 25 to 40 lbs. per acre.

**Japanese Millet.** It is rather coarse and succulent, which makes it difficult to cure for hay and it is not recommended for that purpose. It makes the best silage and green forage of any of the Millets. For green feed, cut just before the heads appear. For ensilage, cut in late bloom or when the seed is beginning to form. Weight 32 lbs. to bushel. Sow 15 to 20 lbs. per acre.

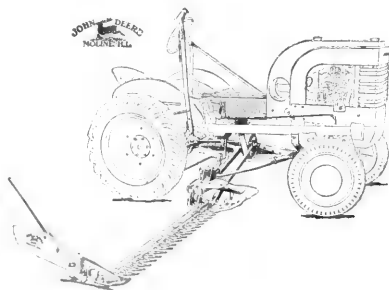
## GRAINS

**Barley. Oderbrucker.** Six-rowed, heavy yielding, used mostly for cover crop. Weight 48 lbs. to bu. Sow 2 bu. to acre.

**Buckwheat—Japanese.** Yields heaviest on fertile well-drained, sandy loam, but will give fair results on soils too poor for most other crops, matures in about 70 days, ripens best in early Fall. Weight 48 lbs. per bu. Sow one bu. per acre.

**Oats—Victory Type Select.** Large, plump, white kernels, with thin hulls, grows well on light soils and stands considerable drought, earliest of the heavy yielding sorts. Weight 32 lbs. per bu. Sow 2 bu. per acre.

**Rye—Rosen Winter.** Produces a strong, vigorous straw. The grain is large and heavy and commands a premium over common rye, but the excess yield will more than pay the extra cost. Weight 56 lbs. per bu. Sow 2 bu. per acre.



With this integral mower, the Model "L" really gets hay down in a hurry. On the jobs that follow, such as raking, loading, sweep raking, or baling, the Model "L" will handle them all at mighty low cost.

# NOD-O-GEN

**A PURE CULTURE OF NODULE BACTERIA**

Make sure of nitrogen gathering nodules for your legume crops by inoculating with NOD-O-GEN. Assures heavy early growth. Better plant growth above and below ground. Higher protein content of crops. NOD-O-GEN improves quality, quantity and yield. Use NOD-O-GEN.

*for Seed Inoculation*

NOD-O-GEN is available for inoculation of all legumes divided into many separate groups. Write us what legumes you are planning to grow. Full information FREE



For Alfalfa and Sweet Clover.

½ bu. size 30c    1 bu. size 50c    2½ bu. size \$1.00

For Clovers, Medium Red, Crimson, Mammoth, Alsike, White and White Dutch.

½ bu. size 30c    1 bu. size 50c    2½ bu. size \$1.00

For Soybeans.

1 bu. size 20c    2 bu. size 30c    5 bu. size 55c

For Cowpeas, Lima Beans and Velvet Beans.

1 bu. size 20c    2 bu. size 30c    5 bu. size 55c

For Field Beans, Wax String, Navy Snap, Kidney and Scarlet Runner.

½ bu. size 20c    1 bu. size 30c    5 bu. size \$1.00

For Vetches—Spring, Wild, Common, Hairy or Winter and Hungarian.

Peas, Austrian, Canada, Garden, Sweet and Canning.

½ bu. size 25c    1 bu. size 35c    5 bu. size \$1.50

Garden Combination for Garden Peas and Beans, Sweet Peas and Lima Beans.

For 5 lbs. or less 10c



**At Last! an Ideal Food for Dogs.** Purina Dog Chow belongs to the Checkerboard family of quality feeds. That is your guarantee of dependability. When you feed Purina Dog Chow you start in at a point it has taken Purina over thirty years to reach. All of their experience, all of their science, all of their skill is behind every little cube of Dog Chow.

5 lbs. 50c    10 lbs. \$1.00    25 lbs. \$2.15    50 lbs. \$4.00

# INSECTICIDES FUNGICIDES



**ACME ALL AROUND SPRAY.** Combines Bordeaux Mixture, the best known remedy for blight and fungus diseases, with arsenate of lead to control chewing insects and Black Leaf "40" to kill sucking insects.

Price: ¼ lb. 25c 1 lb. 50c



**ACME ANT-KILL.** Kills ants in the nest. Cottage set contains five service cups, five nails and a bottle of syrup.

Price 50c.

**Ant Cups**—A bottle cap filled with insecticide for killing ants and roaches. 6 in a package. 25c package.



**TAT ANT TRAPS.** The bait is contained within a metal air-sealed trap.

Price 25c each, 5 for \$1.00.



**APHIS SPRAY.** An improved nicotine spray for the control of aphis, thrip, leaf-hopper, and many more hardy insects infecting rose bushes, flowers, vegetables, etc. It is a combination of one-third Black Leaf "40" and two-thirds soft fish oil soap.

Price: 3 oz. tube 35c 12 oz. \$1.00

**ARSENATE OF LEAD (Powder).** For spraying trees, shrubs and non-edible parts of vegetables against attack of leaf-eating insects.

Price: 1 lb. 30c.

3 lb. bag 60c 4 lb. bag 75c

Prices on larger quantities on application.

**ARSENATE MAGNESIUM.** Used for the control of the Mexican bean beetle.

Two-pound package makes 100 gallons of spray.

Price: 65c each.

**ATLACIDE (Calcium Chlorate).** A non-poisonous weed killer. Can be dissolved in water and applied as a spray or can be dusted on the weed from the sifter can.

5-lb. can \$1.50

15 lb. drum \$3.50 50-lb. drum \$7.00

100 lb. drum \$13.50

**BLACK LEAF "40"—Nicotine Sulphate.** This insecticide is highly recommended by experimental stations as a spray for all soft bodied sucking insects and does not injure the foliage. It may be combined with other sprays.

1 oz. bottle 35c 5 oz. bottle \$1.00

1 lb. \$2.25 2 lbs. \$3.25 5 lbs. \$5.85 10 lbs. \$10.60

Prices on larger quantities on application.

**BORDEAUX MIXTURE (Powder).** For the control of Potato Blight, Celery Blight, Strawberry Leaf Spot, and Black Rot on Grapes.

1 lb. 30c 4 lb. bag 75c

**BUG DEATH.** A non-poisonous powder used as a dust. Kills potato, squash and cucumber bugs, also currant and tomato worms.

1 lb. 20c 3 lbs. 40c 5 lbs. 60c 12½ lbs. \$1.40

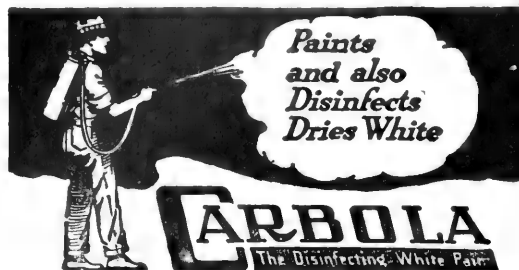
25 lbs. \$2.50 100 lbs. \$8.00

**CALCIUM ARSENATE.** Used to control potato bugs, tomato and cabbage worms—also many other chewing insects.

1 lb. 25c

4 lb. bag 60c

Prices on larger quantities on application.



**CARBOLA.** The modern disinfecting white paint. For poultry houses, stock barns, cellars, etc.

5 lb. package makes 2½ gallons—60c

10 lbs. 98c 25 lbs. \$1.90 50 lbs. \$3.50

## Insecticides and Fungicides—Con.

**COPPER SULPHATE (Crystals).** Used as a spray for rots, molds, mildews and all fungus diseases—principally on potatoes.

Prices on application.

**COPPER SULPHATE MONOHYDRATED.** Mixed with lime, it is used as a dust for blight control, mostly on potatoes.

Prices on application.



**CROW REPELLENT**—Insures seed corn against attack by crows, pheasants, blackbirds and other corn annoying birds.

$\frac{1}{2}$  pt. can 60c, enough for one bushel of corn

1 pint \$1.00

1 quart \$1.75

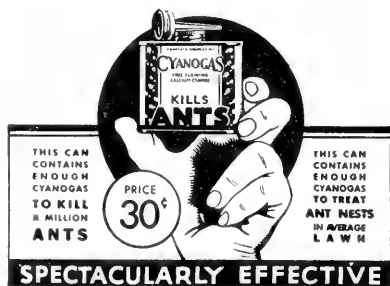
**CROW-FEZ.** Bird and rodent expeller.

$\frac{1}{2}$  pt. can 35c      1 pt. can 50c      1 qt. can 85c  
1 gallon can \$2.75

**CUCURIBIT DUST** A new and effective dust for the control of melon insects and diseases.

Does not injure the blossoms and tender vines. Increase your yields of melons and cucumbers.

5 lb. bag 65c    50 lb. bag \$4.00



**CYANO GAS "A" DUST** is a powder which, when exposed to air, gives off a poisonous gas which is the killing agent. For ants, rats, moles, woodchucks and other burrowing rodents.

$\frac{1}{2}$  lb. can 45c      1 lb. can 75c      5 lb. can \$3.00

**CYANO GAS "G" FUMIGANT.** Standard greenhouse fumigant.

5 lb. can \$3.00



**DAWG-GONE** is a combination of rare chemicals releasing an odor very distasteful to dogs. Just hang tube on lower branch of tree at point of approach. Tubes at corners will protect clump of several trees.

Price: 25c ea. 5 for \$1.00

**FISH OIL SOAP** is recommended as a tree and plant wash to keep them bright, clean, and free from many insects and lice.

1 lb. can 35c    5 lb. can \$1.50  
10 lb. can \$2.50



**GREENTOX.** A super Rotenone spray, effectively controls, Rose Bugs, Japanese Beetles, Red Spiders, Mealy Bugs, Potato Flea Beetles, Mexican Bean Beetles, Cucumber Beetles, Aphid and many other insects.

1 oz. 35c    6 oz. \$1.00    1 pt. \$2.00    1 qt. \$3.50

**KAYSO.** The casein spreader that is effective in any mixture, wet or dry, under any conditions. Lime sulphur, bordeaux, lead arsenate, nicotine and whitewash, all cover better and stay longer when mixed with KAYSO. Use one pound to 100 gallons dilute spray.

1 lb. package 30c    2 lbs. 50c    10 lbs. \$1.90  
50 lbs. \$8.50    100 lbs. \$16.00

**LIME—SNOW FLUFF SPRAY AND DUSTING.** Often too little care is shown in the selection of the Lime used in the Sprayer, so that clogged nozzles and uneven spraying has resulted with a consequent loss in crop production and labor. Snow Fluff is free from impurities, extremely light and fluffy, has adhesive properties and increases crop production, costs less because it saves you money.

10-lb. bag 25c    50-lb. bag 65c    100-lb. bag \$1.10

Prices on larger quantities on application.

**LIME AND SULPHUR SOLUTION** is the fungicide most commonly recommended for apple and many other fruit diseases. For early spring spraying use. One gallon to forty gallons of water. For summer spraying, use one gallon to fifty or sixty gallons of water.

1 qt. can 35c     $\frac{1}{2}$  gal. can 50c    1 gal. can 75c  
5 gal. can \$2.50

Ask for prices on larger quantities.

**LIME AND SULPHUR DRY.** This fungicide contains the same ingredients as the liquid lime sulphur, but is more convenient to handle. Use 3 to 3 $\frac{1}{2}$  pounds to fifty gallons of water.

1 lb. can 30c    5 lb. can \$1.35  
12 $\frac{1}{2}$  lb. bag \$1.75    25 lbs. \$3.25  
50 lbs. \$6.00    100 lbs. \$11.00

**MEO-181**—Kills weeds—Does not kill lawn grass. A scientifically correct one-shot weed killer to destroy dandelions, plantain, crab grass, and other common weeds.

1 quart 65c    1 gallon \$1.55

**NIAGARA FLOWER GARDEN DUST OR SPRAY** is processed to kill the chewing (leaf and foliage eating) insects and prevent diseases in the flower garden; Black Spot and Canker of Roses; Mildews of many flowers and shrubs; Rusts; Leaf Beetles; Caterpillars; Leaf Roller and many other pests.

1 lb. can 35c    4 lb. bag 90c

### NIAGARA ROTENONE DUST OR SPRAY

Kills Thrips on gladiolus and other plants, many forms of Aphids and other sucking insects. It may also be used to kill leaf and foliage eating insects on plants when the use of an arsenical poison is objectionable.

1 lb. can 35c 4 lb. bag 75c

**NIAGARA VEGETABLE GARDEN DUST OR SPRAY** is easy to handle—either dust it on the plants just as it comes from the package or mix it with water and spray.

Don't trust to luck—kill the bugs, prevent the diseases and give your garden a chance.

1 lb. can 35c 4 lb. bag 80c

**NICOTINE DUST.** P. A. Nicotine dust contains 4% actual nicotine. The most effective remedy for aphids and all sucking insects on potatoes, peas and other plants.

1 lb. can 50c 5 lb. can \$1.50  
10 lb. can \$2.50 25 lb. drum \$5.00  
50 lb. drum \$9.00 100 lb. drum \$15.00



**POMO GREEN.** Leaf green sulphur dust for the control of black spot, and chewing insects on plants. Fine for roses. Can be used as a dust or spray.

1 lb. can 50c 5 lb. package \$1.75  
25 lb. can \$8.00 100 lb. drum \$21.00

**POMO GREEN WITH NICOTINE.** Use where aphids are present.

1 lb. can 75c 5 lb. package \$3.00  
25 lb. can \$12.75 50 lb. can \$21.00

**PRUNING PAINT.** Kopper Shield—for treating wounds left by pruning, storms, or accidents.

1 qt. 75c 1 gal. \$2.00

**RED ARROW**  
NON-POISONOUS  
**INSECT SPRAY**  
(PYRETHRUM DERRIS SOAP)

Spray your garden with Red Arrow and you destroy both chewing and sucking insects at the same time. Absolutely non-poisonous to human beings, domestic pets and birds, but deadly to insects. One ounce makes four to eight gallons of spray.

Price: 1 oz. bottle 35c ¼ pt. can \$1.00  
½ pt. can \$1.75 Pint can \$2.85

**ROTECIDE.** A Standard Rotenone Spray harmless to the most delicate plants, flowers and foliage.

1 oz. bottle 25c 8 oz. bottle 85c

**SANOSEED.** Instantaneous potato dip. For the control of Blackleg, Rhizoctonia, Scab and certain other seed-borne potato diseases.

¼ lb. can 50c; enough for 7½ gallons of water.  
1 lb. can \$1.75 5 lb. can \$8.00

**SCALECIDE**—the quality miscible oil. Oldest and best known dormant or delayed dormant spray for fruit trees and ornamentals. Makes them more beautiful, healthful and fruitful. Use 1 to 15 for all deciduous trees, 1 to 20 for evergreens. Kills scale, aphids, red mite and other insect eggs and larvae wintering on trees and ornamentals.

Prices: 1 qt. 65c 1 gal. \$1.55 5 gal. \$5.50  
10 gal. \$9.50 15 gal. \$13.25 30 gal. \$21.00

**SEMESAN.** General disinfectant for vegetable and flower seeds or bulbs and certain plant diseases.

½ oz. 10c 2 oz. can 35c 1 lb. \$2.25 5 lb. \$10.00

**SEMESAN BEL.** Dip disinfectant for seed potatoes. It is valuable for combatting such surface-borne diseases of white seed potatoes as Rhizoctonia and scab, and for protecting the seed against certain soil-borne organisms that cause premature decay of the seed pieces.

2 oz. 25c 1 lb. can \$1.50 5 lb. can \$6.50

**SEMESAN, JR.** Dust disinfectant for seed corn, generally preserves the seed against rotting in cold, wet weather and checks certain forms of seedling blight, root and stalk rots. It also increases germination.

1½ oz. can 13c 1 lb. can 75c 5 lbs. \$3.00



**SULPHUR DUST** is a preventive rather than a cure for Black Spot on roses, mildew on roses, chrysanthemums, Phlox, Delphiniums, Sweet Peas and Lilacs. Leaf spot on roses, phlox, hollyhocks and peonies.

2 lb. sifter top can, 25c

4 lb. bag 40c 24 lbs. \$2.00 48 lbs. \$3.75

**SULPHUR - COMMERCIAL - POWDERED**  
Used principally for checking mildew and various blights.

1 lb. 15c 5 lbs. 50c 10 lbs. 80c  
25 lbs. \$1.25 50 lbs. \$2.00 100 lbs. \$3.50

**TOBACCO DUST**—for keeping bugs off cucumber, melon and squash vines. Also used for fumigating.

1 lb. 10c 5 lbs. 30c 10 lbs. 50c  
25 lbs. \$1.00 50 lbs. \$1.75 100 lbs. \$3.00

### TREE TANGLEFOOT

Is a sticky material for applying in bands around the trunks of trees and vines to combat the climbing and creeping type of destructive insect pests.

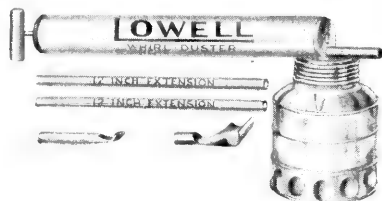


It remains effective three to four months, outlasting ten to twenty times any other material.

6 oz. can 35c  
1 lb. can 65c  
5 lb. can \$3.00  
10 lb. can \$5.65

**LOWELL GUARD DUSTER**

Is most frequently used in and about the home, in destroying roaches, ants, flies, etc. Made of heavy tin. Finished in green lacquer. Powder compartment  $1\frac{1}{2}$  in. dia.,  $3\frac{1}{4}$  in. long. Pump  $1\frac{1}{2}$  in. dia., 7 in. stroke. Price **25c.**

**LOWELL WHIRL DUSTER**

A handy powder blower with 16 oz. heavy glass container, powder always visible to operator. It throws a heavy fog of dust with every stroke of the plunger. Furnished with two 12 in. extensions. Price **\$1.00.**

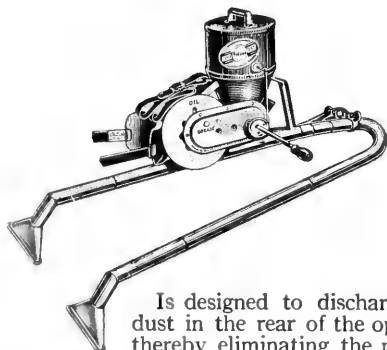


**DOBBINS  
No. 204  
WHEEL-  
BARROW  
DUSTER**

Price **\$25.00**

Net Cash  
Price **\$23.75**

A one-man traction type duster for all row crops such as potatoes, berries, tobacco, beans, cabbage, etc.

**DOBBINS No. 200 UNIVERSAL DUSTER**

Is designed to discharge the dust in the rear of the operator thereby eliminating the need of walking in the dust and the possibility of inhaling poisonous insecticides.

Price **\$12.63**

Net Cash Price **\$12.00**

**DOBBINS No. 100 CRANK DUSTER**  
Price **\$10.00** Net Cash Price **\$9.50**

**LOWELL MIDGET SPRAYER**

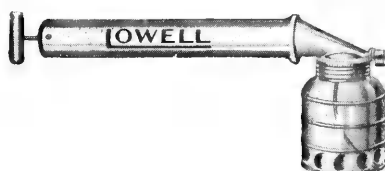
Meets the demand for a low priced sprayer for household purposes. Tank: 3 in. dia., 3 in. long,  $\frac{3}{4}$  in. can screw for filling. Capacity  $\frac{3}{4}$  pt. Pump:  $1\frac{1}{4}$  in. dia., 10 in. long. Price **20c**

**LOWELL HANDY GARDEN SPRAYER**

Is a convenient pattern to use in the back yard garden, around shrubbery or in the poultry house. Made of heavy tin. Tank: 4 in. dia., 4 in. long, capacity 1 qt. Pump:  $1\frac{1}{2}$  in. dia., 13 in. long. Plunger fitted with a special leather. Price **30c.**

**LOWELL MASTER CONTINUOUS SPRAYER**

Provides a large volume spray with ease of operation. Nozzle and all working parts are of brass. Tank: 4 in. dia., 4 in. long. Pump: heavy tin,  $1\frac{1}{2}$  in. dia., 14 in. long, with brass ball valve. Price **75c**

**LOWELL AMBASSADOR SPRAYER**

Meets the demand for a continuous sprayer with detachable container. Tank: 24 oz. heavy glass jar. Pump: Heavy tin,  $1\frac{1}{2}$  in. dia., 13 in. long. Price **\$1.00.**

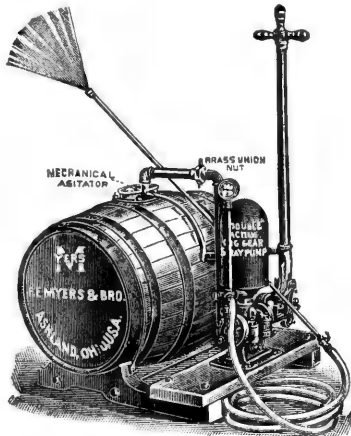
**DOBBINS FUN-L-FILL SPRAYER**

For convenience and economy in filling. The Pump is attached to the tank by a "patented" "Cam lock sealing device." The tank is built for high pressure and a long period of service, electric welded seams throughout. Capacity  $3\frac{1}{2}$  gallons.

Price Galv. **\$3.50**



## Myers Cog Gear Spray Pump (Double Acting)



With brass valves and ground bevel brass seats, 2-in. seamless brass removable cylinder, hemp packed plunger and double lever shut-off discharge. SPECIAL FEATURES: Cog Gear Movement increases the leverage, adapting it for spraying under heavy pressure. Mounted complete. Occupies smallest possible space. Capacity sufficient for 8 nozzles. An ideal outfit for spraying potatoes. Will set in an ordinary farm wagon box.

No. R316B Pump complete, 50 gallon barrel mounted as shown, with pressure gauge, one 15 ft. lead of  $\frac{3}{8}$ -in. 7-ply discharge hose, one Fembro nozzle, one 8 ft. pipe extension with lever shut-off and mechanical agitator.

Price \$60.00 Net Cash Price \$57.00

## Myers Portable Sprayer



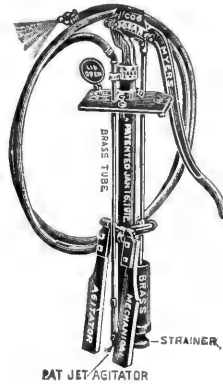
A handy outfit about the home greenhouse or orchard. The tank is made of heavy galvanized iron thoroughly reinforced at top and bottom by steel bands. Hung in the frame on trunions. 12 $\frac{1}{2}$  gallon capacity.

R336 $\frac{1}{2}$  B. Complete as shown, with dasher agitator, 15 ft.  $\frac{1}{2}$  in. 5-ply discharge hose, 8 ft. extension and Vermorel nozzle.

Price \$26.50 Net Cash Price \$25.18

R339 $\frac{1}{2}$  B same as R336 $\frac{1}{2}$  B but with Air Chamber, Air Pump and Pressure Gauge.

Price \$42.50 Net Cash Price \$40.38



## Myers Cog Gear Barrel Spray Pump

Complete with one lead of 15 feet  $\frac{1}{2}$ -inch 5-ply discharge hose, graduating Vermorel nozzle, and mechanical agitator for closed head barrel.

No. R318B Price \$17.00

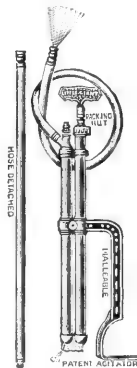
Net Cash Price \$16.15

## Myers Cog Gear Lever Bucket Spray Pump

With agitator, complete with detachable hose and graduating Vermorel fine sprinkling and solid stream nozzle.

No. R324 Price \$6.50

Net Cash Price \$6.18



## Myers Little Giant Bucket Spray Pump

With agitator, complete with hose and imperial combination fine, coarse spray and solid stream nozzle, with malleable foot rest.

No. 327 $\frac{1}{2}$  Price \$4.50

Net Cash Price \$4.28

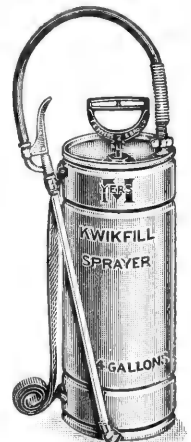
## Myers Kwikfill Compressed Air Sprayer

Finished in French Gray Enamel. Complete with 18 in. Brass Extension Rod.

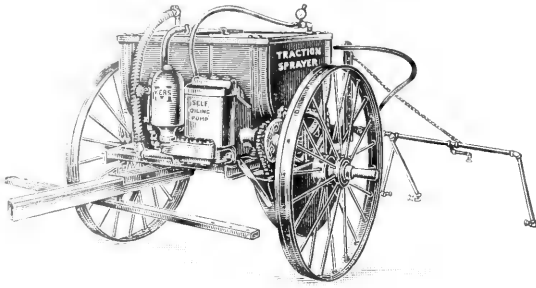
The concave top forms an 8 in. Funnel. Just pour the Spray Mixture into the tank from any size pail.

No. 2242 4 Gallon Galv. Tank \$6.00

No. 2242B 4 Gallon Brass Tank \$10.50



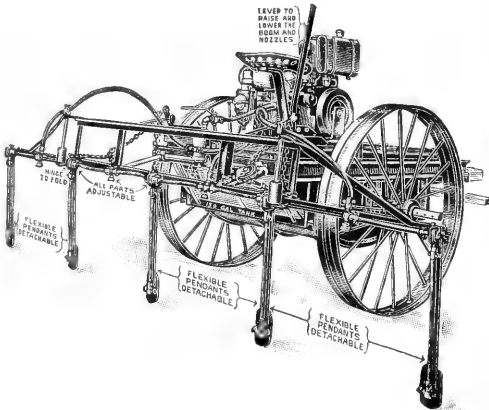
## Myers Row Crop Sprayers



**Myers Traction Sprayer No. 1077** as shown with 100-gallon tank, lever cut-off, sediment chamber, long double-tree and neckyoke, 4-row boom.

**Myers Traction Sprayer No. 1076** with 50-gallon tank, pressure gauge, lever cut-off, long double-tree and neckyoke, 4-row boom.

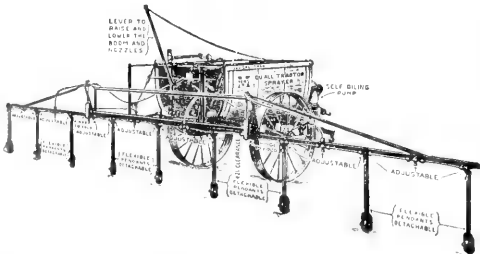
Price on application.



**Myers Senior Power Sprayer No. 1070X** as shown with 150-gallon tank, duplex self-oiling pump, 4-H. P. engine, 4-row boom.

**Myers Junior Sprayer No. 1079** with 100-gallon tank, self-oiling bulldozer pump, 2-H. P. engine and 4-row boom.

Price on application.

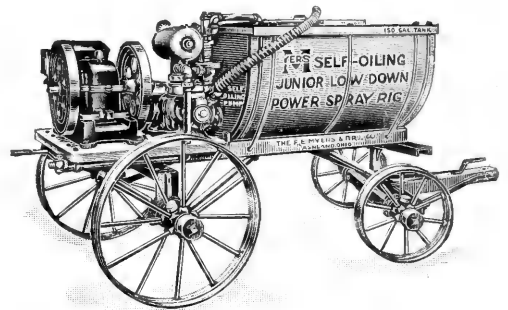


**Myers Du-All Tractor Driven Power Sprayer** with 300-gallon tank, triplex self-oiling pump and 6-row boom.

**Myers Du-All Tractor Driven Power Sprayer No. 1099X** with 300-gallon tank, quadruplex self-oiling pump and 8-row boom.

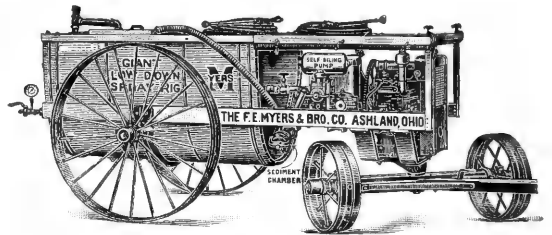
Prices on application.

## Myers Orchard Sprayers



**Myers Self-Oiling Junior Low Down Power Spray Rig No. 754** with 100-gallon tank, engine and double acting pump. 250 to 300 lbs. pressure. Designed for the farmer with a small orchard.

Prices on application.

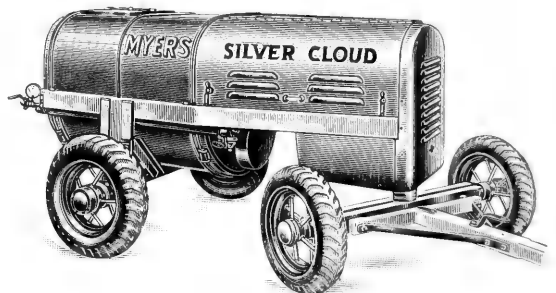


**Myers Giant Power Spray Rig No. 724X** as shown with 200-gallon tank, Triplex pump and 6-H. P. engine, delivers 10 to 16 gallons per minute, 350 to 500 lbs. pressure.

**Myers Giant Power Spray Rig No. 731X** with 300-gallon tank, Quadruplex pump and 8-H. P. engine delivers 12 to 20 gallons per minute, 350 to 500 lbs. pressure.

Prices on application.

## Myers Silver Cloud Power Spray Rigs



Made with complete enclosure of all operating parts. Its sturdiness and low center of gravity will withstand the most severe service. Furnished in various sizes delivering up to 35 gallons per minute at 600 lb. pressure.

Prices on application.

## Dusting

### The Modern Method of Crop Protection.

The rapid strides which the dusting method of crop pest control has made in the past five years is directly traceable to the efforts of the Niagara Sprayer Company. Its success, however, has come because it has done those things which were claimed for it, and brought results by the most direct route.

Dusts of infinite fineness have been perfected, containing those properties necessary to kill insect pests and prevent diseases. Not only do the Dusts do the work done by liquid sprays, but their development has opened new fields of Crop Pest Control.

Niagara Dusts are now being made that stick "through Wind and Rain" and exhibit toxic properties to many fungi and insects heretofore unequalled by either wet or dry materials.

### Niagara Dusting Material

**Kolodust.** A new dust developed by the Niagara Sprayer Co. It is sulphur fused with bentonite at high temperature and the product is koloized (a colloidal form). This produces a dust of infinite fineness much finer than 300 mesh, which experiment stations have proven more toxic to fungous diseases than any sulphur yet produced.

\$5.35 per 100 lb. bag.

**Kolotex.** A Sulphur Poison dust that will stick. The New Exclusive Niagara Sulphur Fungicide with Lead Arsenate.

\$7.00 per 100 lb. bag.

**Kolokil.** A Sulphur Heavy Poison Dust.

\$7.50 per 100 lb. bag.

**Kolopeach.** A Sulphur Small Poison content Dust suitable for dusting peaches and other stone fruits.

\$6.35 per 100 lb. bag.

**Kolopeach Special.** Carries a higher lead content. For use in orchards where peaches and apples are interplanted.

\$6.95 per 100 lb. bag.

**A-1 Mixture.** A Contact Poison Dust. High percentage of quickly volatile nicotine fumes. 3% actual 100% nicotine. For aphids, red bugs, pear psylla, etc. The best contact dust for sucking insects, both out doors and greenhouses.

\$11.50 per 100 lb. drum.

**P. A. Dust.** Used same as A-1, contains 4% actual 100% nicotine.

\$15.00 per 100 lb. drum.

Above Prices Subject to 5% Discount For Cash.

**Rotenone Dusts.** Non-poisonous. Are the latest development in materials for use in the control of chewing insects. They have the additional quality of leaving no objectionable residue at harvest time. The present restrictions in our arsenical residue tolerance have made an increasing demand for materials which kill chewing insects and yet may be used with safety.

Price on application.

**Copodust.** A Copper-Lime Dust. The New Exclusive Niagara Copper Lime Fungicide for blights of potatoes and other field crops.

Price on application.

**Copotex.** A Copper Lime Dust, with Poison added for potato bugs, etc.

Price on application.

**Wildfire Dust.** A Copper Lime Dust for tobacco.

Price on application.

## Niagara Spray Material

**Kolofog.** A colloidal sulphur, for Summer application on apples and peaches. More toxic than any other non-caustic sulphur spray material. Use 6 lbs. to 100 gallons of water.

48 lb. carton \$4.75

**Pre-Harvest Kolofog.** A substitute for Kolofog and lime on late applications.

48 lb. carton \$4.75

**Kolofog Wettex—Apple.** Kolofog with the proper amount of lead. Use 9 lbs. to 100 gallons of water.

45 lb. carton \$5.40

**Zinc Kolo Wettex** for peaches.

50 lb. carton \$6.00

**Kolo Spray—87% sulphur.**

50 lb. bags \$3.50

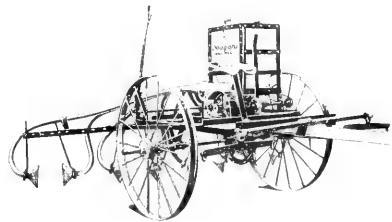
Above prices subject to 5% discount for cash.

**Emulso.** Emulsified Oil for control of red mite, scale and aphids. Price on application.

**Peninsular Oil Emulsion.** (Used same as above.)

Price on application.

## The "Dri-Fog" Crop Duster



(4-row,  
8-nozzle or  
6-row,  
12-nozzle)

Prices on  
application.

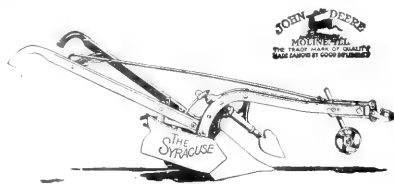
Is the most recent addition to Niagara's complete line of Dusts and Dusters. This great crop duster is a new machine in every respect—in design, construction and performance.

## Cyclone Fruit Duster, Complete

With self-starter, generator, pneumatic tires and bag racks, powered by a 4 cylinder 8-14 H. P. engine, driving direct on the fan gears, or can be furnished to attach direct to tractor with power take-off.

Prices on application.

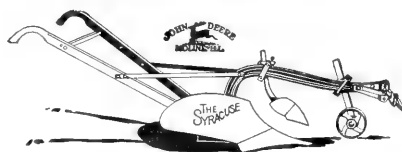
### John Deere—Syracuse No. 821 Series Truss Steel-Beam Hillside Plow



Ample throat room and close-fitting joints prevent clogging. Choice of white iron or tempered steel mouldboard adapts them to a variety of soils. Steel and malleable iron give maximum strength and unusual light weight. Two-piece truss-style beam is extra sturdy. Renewable shoe protects standard and serves as landside.

825 Small, one horse	824 Medium, one horse
823 Large, one horse	822 Medium, two horse
821 Large, two horse	Prices on Application.

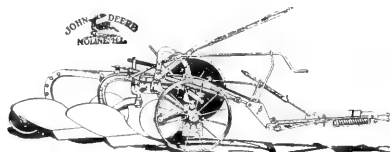
### John Deere—Syracuse No. 31-32 Series Walking Plow



The mouldboard of hardened soft-center steel is formed so that a furrow may be turned smoothly up or down on sloping land. This feature makes Syracuse plows of this series popular in sections where the land is somewhat rolling. Steel landside of extra height, furnished with a cast shoe which can be renewed at slight expense.

32 Medium, two horse	31 Large, two horse
Prices on application.	

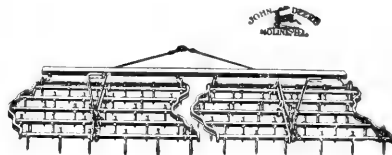
### John Deere No. 4 Tractor Plow



The strongest two-bottom tractor plow ever built. Beams, beam-bracing and other important parts are of the same great strength as similar parts built into larger John Deere tractor plows. Heavy-duty, constant power lift raises bottom to a constant height regardless of depth of plowing. 23-inch clearance from beams to share-points insures freedom from clogging. Rolling landside carries rear weight on greased bearing—no dragging landside friction. Furnished with 12, 14 or 16-inch bottoms. For any farmer operating a "two-plow" tractor, the No. 4 is a mighty satisfactory plow.

24 in. Cut (1442S Bottoms)
28 in. Cut (1441S Bottoms)
Prices on application.

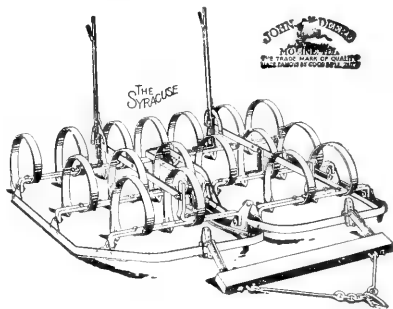
### John Deere Universal Steel Lever Harrow



The Universal is the ideal spike-tooth harrow for orchard or vineyard work because the end rails prevent the tooth bars from catching on trees or vines. A spring relief on each lever permits the harrow teeth to pass over roots, stones, or other obstructions without being damaged. We can furnish the Universal in one, two, three and four sections, with either 25 or 30 teeth to the section.

Price on application.

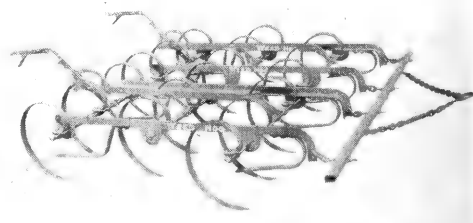
### Syracuse Spring Tooth Harrow



Its special-process, heat-treated spring steel teeth penetrate to a greater depth than any other type of harrow teeth. They tear out the weeds and leave the field smooth. The teeth are securely clipped to the tooth bars—no bolt holes to weaken them. We can furnish any number of sections you desire; also tractor hitch if you want it.

Price on application.

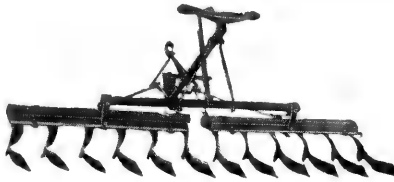
### The Hi-Bar Weed Hog



18 Tooth Weed Hog with chain hitch for tractor or horses. Width 7 ft. 6 in. Weight 355 lbs.

Price on application.

## Acme Pulverizing Harrows



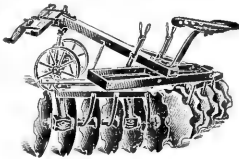
**Acme Pulverizing Harrows** are constructed entirely of steel and iron. They are practically unbreakable and have nothing to wear out but the coulters, and they are interchangeable.

No. 8—4 ft., 4 in., cut for one horse.

No. 12—6 ft., 6 in., cut for two horses.

Prices on application.

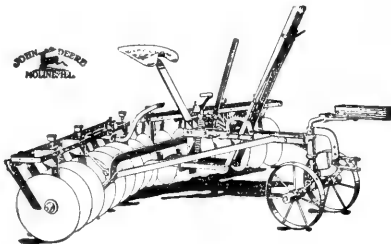
## Clark Cutaway—SINGLE ACTION



The Clark "Cutaway" single action harrow is reversible, that is, the gangs can be swung end for end, so that the soil may be thrown either out or in. A-4 1-horse, 8-16 inch discs. A-6 2-horse, 12-16 in. discs, with pole or foretruck.

Prices on application.

## John Deere Model B

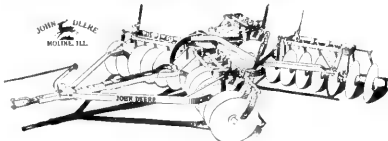


Extremely flexible, penetrates, pulverizes and packs the soil its entire width. Each gang works independently—one gang can pass over obstructions without lifting the other from its work. 12-16 inch discs with pole or foretruck.

Prices on application.

## John Deere Model J. B.

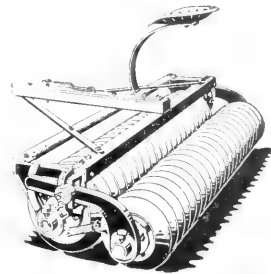
Tractor-Controlled



Made in 5-6-7-8-9 and 10 ft. sizes. A pull on the trip rope enables the tractor operator to change the angle of either section instantly to just the proper degree for best disking results.

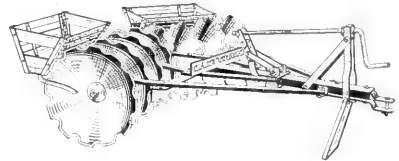
Prices on application.

## Brillion Soil Pulverizer



This is a valuable tool on any farm. Fields worked with the Brillion retain moisture better. Its use reduces Winter killing, retards soil blowing, exposes more surface to the sun for additional warmth to the soil, and materially increases the crop yield.

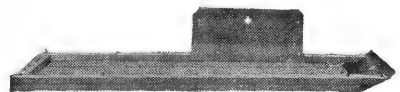
## "Clark Cutaway" Tractor Wonder Disker



The Wonder Disker is a great improvement over the bush and bog plow and harrow which was popular for many years. It is a large, heavy, powerful implement, built for the unusual job where ordinary plows and harrows either cannot be used at all, or where they make the job too laborious and costly. For orchard work the reversing feature is vital.

Price on application.

## Complete Stone Boats



Handiest implement on the farm. The front is of high grade carbon steel 34 in. wide, firmly bolted and braced to the raves and bottom boards, which are hardwood with 32 in. steel head.

Price \$15.80 Net Cash Price \$15.00

With 38 in. Steel Head Price \$20.00

Net Cash Price \$12.00

## Stone Boat Heads

Cast 32 in. with bolts.  
Steel 40 in. with bolts.  
Steel 34 in. with bolts.  
Steel 29 in. with bolts.

Price \$6.00  
Price 5.50  
Price 5.00  
Price 4.50

### Planet Jr. Seeders



The No. 300A is rapidly becoming the most popular seeder for market gardeners. It is a plate seeder having three seeding plates each with 13 holes giving ample adjustments for any size seed. Adjustments quickly and easily made. Hopper removable. Many exclusive features combine to make the No. 300A easy running, dependable and accurate. For use on ordinary soil.

**Price \$20.00**

**No. 3 Hill and Drill Seeder**—For many years the No. 3 has been a popular seeder all over the world. There are a number of reasons for this preference on the part of professional growers.

**Price \$18.00**

**No. 4. Combined Hill and Drill Seeder, single wheel hoe, cultivator and plow.**

**Price \$18.75**

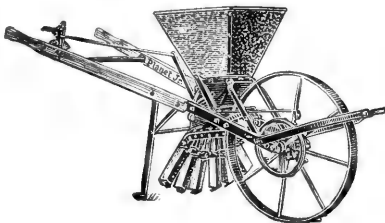
**No. 4-D. Seeder only.**

**Price \$14.75**

**No. 25. Combined Hill and Drill Seeder. Double or single wheel hoe. Cultivator and plow.**

**Price \$22.50**

### Planet Junior Fertilizer Distributors



**No. 220** will handle any commercial fertilizer and will distribute it evenly in any desired quantities.

**Price \$28.75**

**No. 215 Planet Jr. Fertilizer Attachment.** An excellent tool for side-dressing growing crops. It will handle any dry commercial fertilizer, placing accurately regulated quantities in a furrow alongside the row. Anyone owning a No. 119 Planet Jr. High Wheel Garden Plow can purchase a No. 215 Fertilizer Attachment for use on it. It is easy to attach to or remove from the cultivator.

**Price \$6.50**

### Planet Jr. Double Wheel Hoes



**No. 11 Equipment (as shown):** One pair six inch hoes, one pair  $4\frac{1}{2}$  in. hoes, four steel cultivator teeth, one pair plows, two three-tooth rakes, two five-tooth rakes, two leaf lifters.

**Price \$14.50**

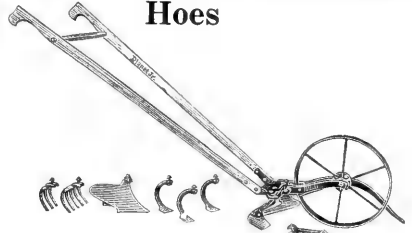
**No. 12 Equipment**—one pair six inch hoes, four cultivator teeth, one pair plows.

**Price \$11.50**

**No. 13 Equipment**—one pair six inch hoes.

**Price \$8.75**

### Planet Junior Single Wheel Hoes



**No. 16 Equipment (as shown)** one pair of six inch hoes, three cultivator teeth, one garden plow, one seven inch rake, one four inch rake, one leaf guard.

**Price \$8.95**

**No. 17 Equipment**—one pair six inch hoes three cultivator teeth, one plow.

**Price \$7.75**

**No. 18 Equipment**—one pair six inch hoes.

**Price \$5.75**

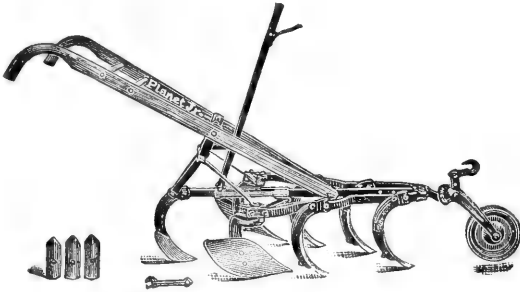
### No. 119 Planet Junior Garden Plow



A complete low priced all around Garden Plow. 24-inch steel wheel  $1\frac{1}{4}$  inch rim. Light, easy running and does fine work. Can be used for weeding, cultivating, furrowing, hilling, etc.

**Price \$3.75**

## Planet Junior Horse Hoes and Cultivators



A very popular machine because of the large amount and great variety of work that can be done with it. Finishes rows up to 42 inches apart and works the middle complete at one passage. Zig-zag frame is particularly strong and the seven teeth insure fine and thorough cultivation. In addition to regular equipment other width of cultivator teeth, sweeps, furrowers and turning shovels can be added.

**No. 82 (as shown) Price \$15.75**

**No. 82 with lever wheel.  
Price \$16.75**

**No. 83—Equipment.** Seven 2¼ x 8 in. cultivator steels, lever expander.

**Price \$13.75**

**No. 83 with lever wheel.  
Price \$14.75**

**No. 7—Equipment.** Four 3 x 8 in. cultivator steels, one 4 x 8 cultivator steel, two six-inch hillers, one seven-inch shovel, lever wheel, lever expander.

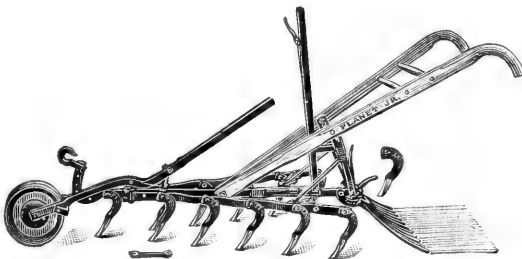
**Price \$15.00**

**No. 8—Same as No. 7, but has a depth regulator.  
Price \$16.00**

**No. 9—Same as No. 7, but has plain wheel instead of lever wheel.**

**Price \$14.25**

## No. 90 Planet Jr.



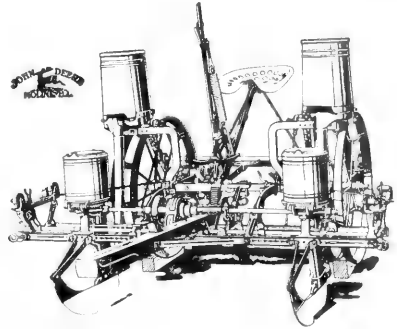
Twelve-tooth harrow (as shown) **Price \$16.50**

**No. 90B Harrow (less pulverizer).**

This tool has become a special favorite with strawberry, tobacco and sugar beet growers, market gardeners, truckers and farmers, because of the fine work of the chisel-shaped teeth. Cultivates any width from 12 to 32 inches. Handles adjust up, down and sideways—a great advantage in blackberries, raspberries, etc.

**Price \$13.50**

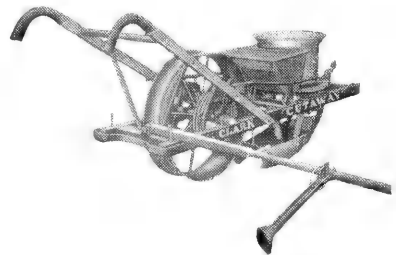
## John Deere No. 999 Corn Planter



Widely recognized as the most accurate planter on the market. The John Deere Natural Cell-Fill, Edge-delivery seed plates, sloping hopper bottom, improved metal cut-off and knocker insure positive feed and unfailing accuracy. Plants accurately whether the hopper is full or nearly empty. Seed plates for handling every kind of corn; also beans, and many other seeds. Variable drop plants two, three or four kernels in each hill as desired. The number of kernels per hill can be varied merely by shifting foot lever, without stopping the machine. Also varies the distance in drilling. Easy to change from hilling to drilling. Underhung reel; a touch of the toe releases check wire, fertilizer can be checked with each hill, or drilled along a row.

Price on application.

## Clark "Cutaway" Corn Planter

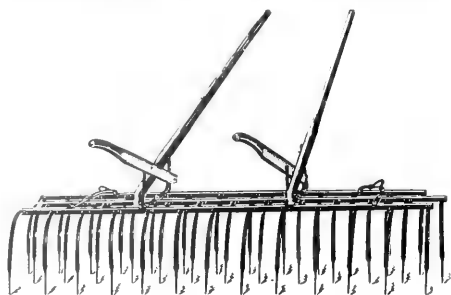


### CLARK "CUTAWAY" CORN PLANTER

is adapted for hilly and rocky land, as well as for easy working conditions. It can be easily pulled by one horse and seven to ten acres can be planted in a day. The seed hopper has two compartments, so two kinds of seed may be planted at the same time, such as corn and beans, or other seeds. Every planter is equipped for planting in hills 4½, 9, 12, 18, 24, 36 and 72 inches apart. It also plants in drills.

Price on application.

## Farquhar Walking Weeder



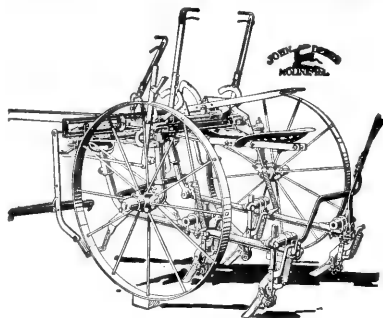
A standard weeder having curved teeth. Built in two sizes 7½ ft.—39 teeth—11 ft.—57 teeth. Prices on application.

**Farquhar Riding Weeder**—12 ft.—63 teeth.

Grass seed attachment for above sows in front of the teeth and is driven by sprocket from ground wheel. Quantity ranges from four to twenty quarts per acre.

Prices on application.

## John Deere KL Cultivator



Especially designed for use in narrow or wide rows—the ideal cultivator for diversified farming. Wheel track quickly adjustable to cultivate rows from 28 to 48 inches wide. Easy control to meet all field conditions by means of master lever, independent depth levers, tilting lever and spacing lever. Quick dodge—pedal guide pivots wheels and shifts rigs. Open framework through center gives good view of work ahead of shovels. Strongly built.

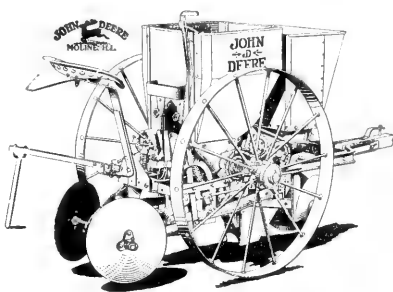
Price on application.

## John Deere Tractor Cultivators



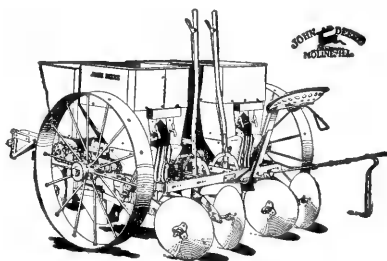
Cultivating is the biggest job on the farm. The two-row shown above covers 2 to 4 acres an hour. Furnished with a choice of hand or power lift. Price on application.

## New John Deere Potato Planters



The simple gravity feed insures just the right amount of seed in the bowl for efficient planting. You can plant whole or cut, treated or untreated seed with surprising accuracy. Highly efficient fertilizer equipment, with leak proof hopper bottoms. Handles fertilizer in practically any quantity desired, in just the way you want it handled, and at the desired depth.

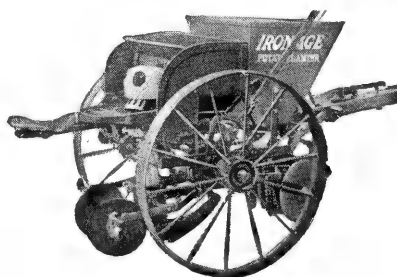
Price on application.



Two row planters are furnished in two sizes, adjustable for rows 30, 32, 34 and 36 inches wide, and for rows 36, 38, 40 and 42 inches wide.

Price on application.

## Iron Age Potato Planters—One Row



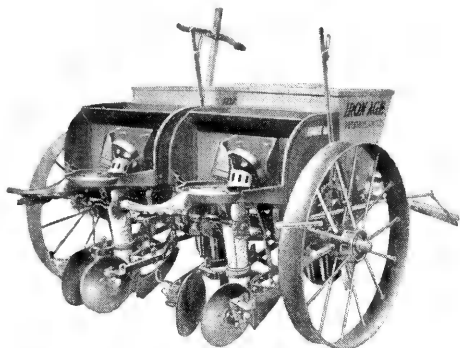
### ASSISTED-FEED PLANTER

For many years it has been conceded that in its ground performance, the Iron Age Planter exhibits the highest degree of perfection ever attained. By Iron Age ground performance is meant the opening of furrow, distributing of fertilizer, and finally ideal covering and ridging. Equipped for large seed.

Price on application.

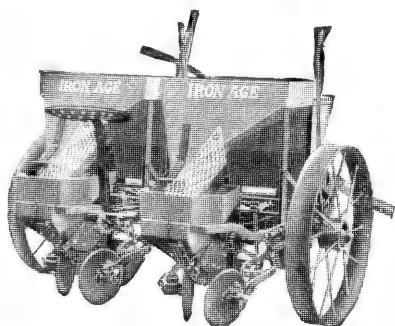


## Iron Age Potato Planters Two-Row



**THE TWO-ROW Assisted-Feed Planter**—has become very popular with the larger grower—not only because of the increased speed of planting, but because it eliminates the use of one man (another driver), as only one driver is required. It is strongly constructed and braced with heavy angle irons, firmly bolted together, which carry all the center weight without placing strain on the axles. It is supplied in two ranges of four width adjustments. For rows 30, 32, 34 and 36 inches, or 36, 38, 40 and 42 inches. Size wanted must be specified when ordering.

Price on application.



**IRON AGE AUTOMATIC PLANTERS** differ from the Assisted-Feed Planters only in their mechanical handling of the seed. The picking of the seed and the planting mechanism are always in plain view of the operator.

One and Two Row  
Prices on application.

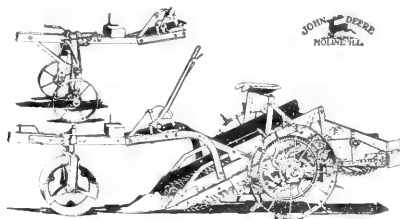
The new Iron Age Hi-Speed or Twin-Row Potato Planter reduces planting costs. Produces greater accuracy at Hi-Speed when planting at close spacing. Permits faster planting of potato acreage, thereby, eliminating possible crop loss due to necessity of planting under unfavorable soil and weather conditions.

Prices on application

## John Deere—Hoover Potato Diggers

These famous mechanical diggers dig the potatoes with a minimum of mechanical injury. Shovel of crucible plow-steel, scours and works in varied conditions without bending or breaking.

Main sides are built up of two steel angles riveted together—much stronger than single-angle construction.



Furnished in one-row size with ground or engine drive, and one- and two-row tractor drive, with equipment to meet your requirements.

Prices on application.

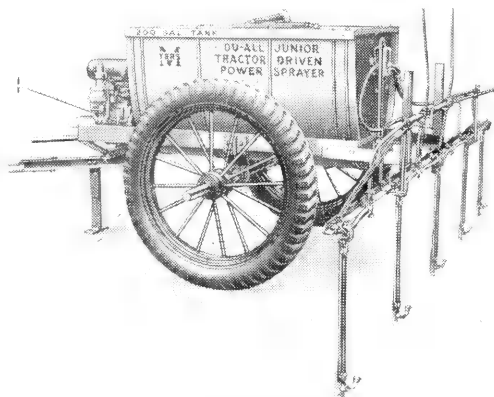
## Farquhar Success Jr. Potato Digger



The most popular plow-type digger on the market. Just the digger for the small grower—in fact no farmer can afford to be without this digger, even if he raises only sufficient potatoes for his own consumption. In time and labor saving it pays for itself the first season.

Price on application.

## Myers Du-All Junior Power Sprayer

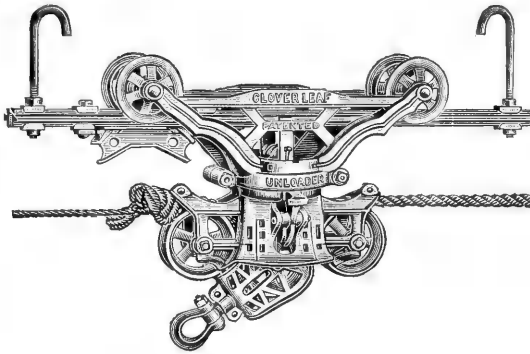
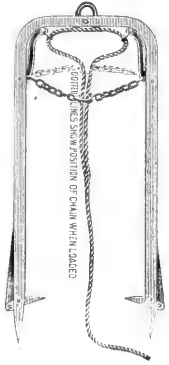
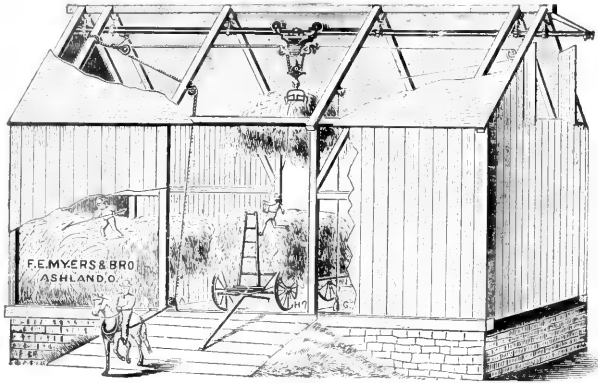


Designed for owners of small tractors. Regularly equipped with boom which can be easily replaced with gun and hose for tree spraying. Prices on application.

**IT PAYS TO USE**

**O. & W. POTATO FERTILIZERS**

## Myers Hay Unloader Outfit



The advantages of a hay carrier as a means of storing away hay or grain are so well known that it is not necessary to go into detail.

Material required for a 40 foot barn: One Un-

loader, 36 ft. Steel Track, 19 hanging hooks, 19 rafter brackets, 5 knot passing pulleys, 1 fork, 6 floor hooks, 110 feet  $\frac{3}{4}$  in. Manila rope, 50 ft.  $\frac{5}{8}$  in. check rope, 40 ft.  $\frac{3}{8}$  in. reverse rope.

Prices on application.

## Planting and Picking Bags



No. 1



No. 2

The bottom of bag No. 1, left open, is folded back and held secure by rope and hook. To empty, the rope is released which allows contents to flow gently into crate or barrel.

Price **\$1.75** each

Price of Bag No. 2 **\$1.00** each

Cyclone Picking Bucket **\$3.75**

## Cyclone Seed Sower

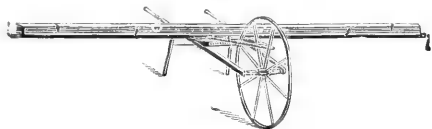


Its well known Double Feed: insures a uniform flow of Seed. Slope Feed Board: keeps hopper properly filled. Feed Adjustment: is automatic and starts or stops flow of seed instantly. Triple Gears: are adjustable to take up possible wear. Distributing Wheel: is made of metal. Has an interlock hub. Scatters seed evenly—throws equal amounts to equal distance on each side of operator.

Price **\$2.75** Net

Cyclone Combination Fertilizer and Grass Seed Sower. Price **\$3.50** Net.

## Thompson Wheelbarrow Seed Sower

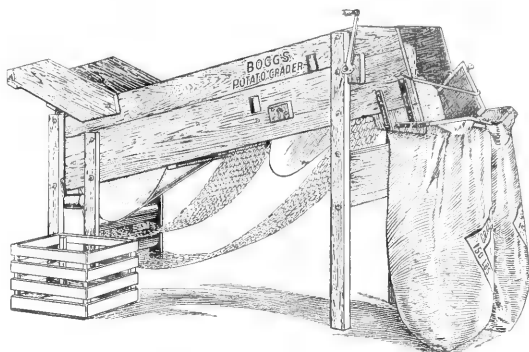


Sows timothy, clover, alsike, alfalfa, millet, turnip and various other seeds.

Price 14 ft. \$15.80 Net Cash Price \$15.00

Grain box for above \$9.50 Net

## Boggs Standard Potato Grader

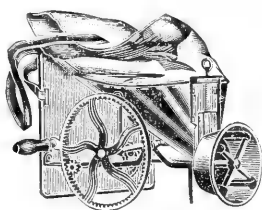


Boggs No. 3 machine permits long or round potatoes to be sorted and graded into No. 1 and No. 2 sizes with less than 3% variation in size from government grades, and cleans them of all dirt, trash and culls in one operation. No. 3 hand grader as illustrated has a capacity of 150 bushels per hour.

When large quantities of potatoes are to be graded, the power equipments will be found most advantageous. They not only have much greater capacity than the hand machine but effect a big labor saving.

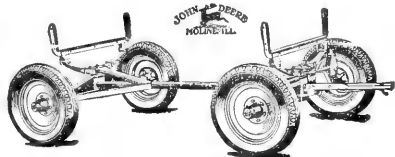
Prices on application.

## Cahoon Broadcast Seed Sower



Price \$5.00 Net Cash Price \$4.75

## John Deere Trailer Gears

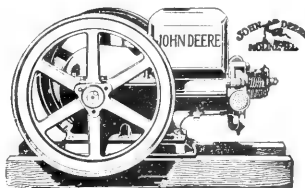


Can be used with horses or tractors around the farm and in the field and with the truck or family car on the highway.

Prices on application.

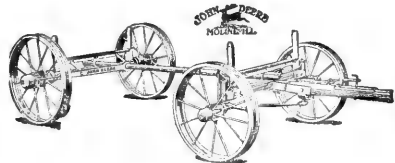
## John Deere Type E Farm Engine

Contains the greatest improvements in engine building made in years. All important working parts fully enclosed in dust proof case are oiled automatically. Magneto equipped 1½, 3 and 6 Horse Power.



Price on application.

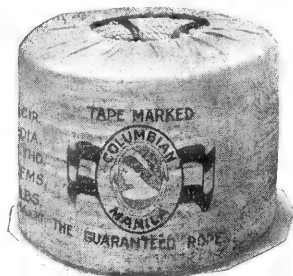
## John Deere All Steel Gear



Is built to haul anything for the horse farmer or the power farmer. Its design provides ample strength for long, dependable service.

Prices on application.

## Columbia Tape Marked Pure Manilla Rope

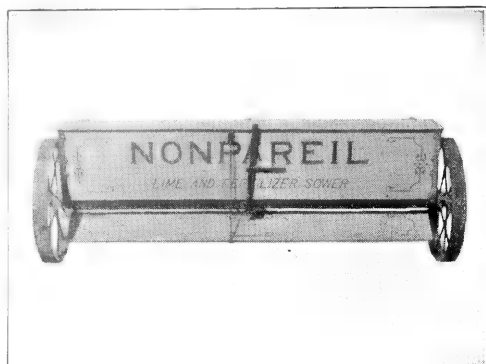


Guaranteed for high quality, strength, durability and service and in proof of its genuineness, branded with a red, white and blue tape marker.

We carry in stock sizes from ¾ in. to 1 in.

Price on application.

## Nonpareil Broadcast Lime and Fertilizer Sowers

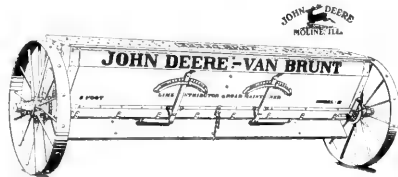


Are designed to handle all the different kinds of agricultural lime and commercial fertilizers in quantities ranging from 100 to 5000 lbs. per acre.

5 ft. size for 1 horse. 8 ft. size for 2 horses.

Prices on application.

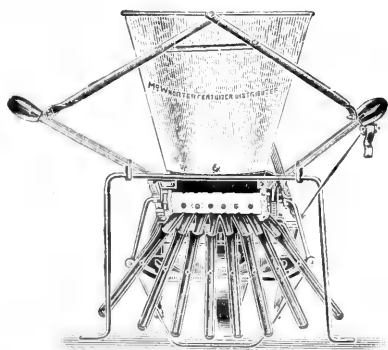
## John Deere—Van Brunt Lime and Fertilizer Sowers



Covers 8 feet of ground; carrying capacity 10 bu. Direct wheel drive—each wheel drives half the machine.

Prices on application.

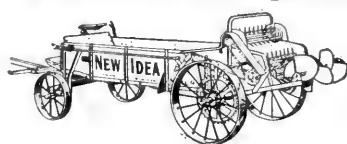
## McWhorter Fertilizer Distributor



Positive belt feed. Sows 200 lbs. to a ton per acre.

Price on application.

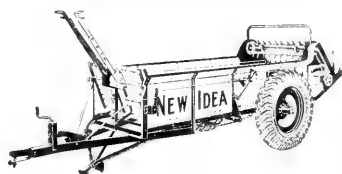
## New Idea Manure Spreader



Does an excellent job of pulverizing and wide even spreading.

Prices on application.

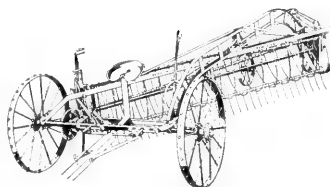
## New Idea Tractor-Drawn Manure Spreader



Especially built for tractor use it operates perfectly and efficiently under high-speed tractor operating conditions.

Prices on application.

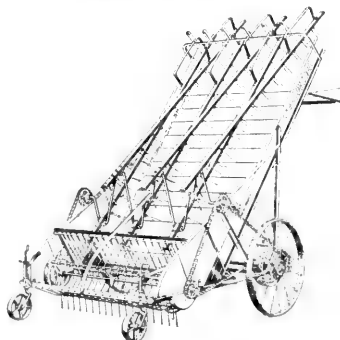
## New Idea Side Delivery Rake and Tedder



If after mowing or after a shower, the hay settles down in a compact mat, there is nothing better than the tedding device built into this machine for gently lifting up the hay and thereby making it loose for quicker curing.

Prices on application.

## New Idea Special Heavy-Duty Hay Loader



Cylinder—Push Bar Design combining the advantages of the cylinder and Raker Bar Type Machines.

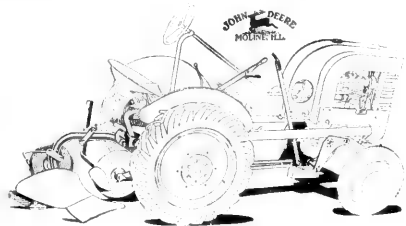
Prices on application.

## JOHN DEERE GENERAL PURPOSE TRACTORS

**No matter what your acreage, there's a John Deere Tractor built in a size to meet your power requirements most economically.**

John Deere tractors are the only tractors that have been designed to burn low-cost fuels. Not only are these fuels much cheaper per gallon than gasoline or kerosene, but they contain more heat units per gallon and where used in the type of tractor motor that will burn them properly, more power is developed, which means a great saving in operating costs.

### Model "L" with L-1 Integral Plow



A great little plowing outfit. The Model "L" tractor pulls its 14 inch integral plow in second gear (3½ M.P.H.) under practically any condition.

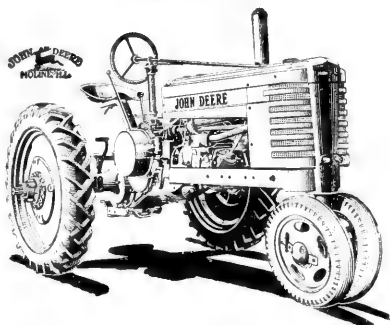
A boy can do good work with this simple, easily handled outfit. Note how the plow hitches well forward toward the front end of the tractor. This insures steady running of the plow and easy handling of the tractor.

Prices on application.

The New Model "LA"—½ again as powerful as the Model L. Weighs about 2100 lbs. No longer do you have to use your larger, more costly tractor on the lighter farm jobs.

Prices on application.

### Model "H"



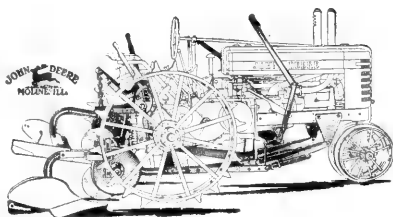
A smaller, lower priced tricycle type tractor that will handle every power job on the small farm and many jobs on the large farm at rock-bottom cost. Pulls single furrow integral two-way plow with 16 inch bottoms or two bottom 24 inch cut plow under favorable conditions.

With a two row cultivator, the Model "H" is the ideal outfit for speedy, effective, low cost cultivation.

Model H can now be furnished with a power lift at a slight extra cost.

Prices on application.

### Model "B"



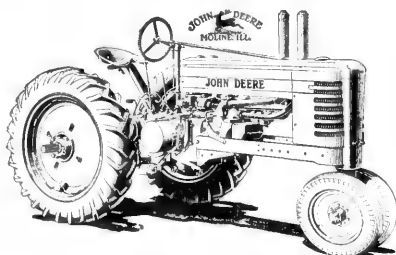
Is a heavy-duty two-plow tractor. Clear, unobstructed vision always has been a feature of John Deere general purpose tractors. The tapered fuel tank, the narrow designs of the tractor, and the location of the seat place the operator in a commanding position.

Pulls single furrow integral two-way plow with 16 inch bottoms or two bottom 28 inch cut plow under favorable conditions.

Model "B" for 1941 has 6 forward speeds. There's one for every job from plowing in heavy soil to hauling on the open road. Also increased power.

Prices on application.

### New, More Powerful Model "A"



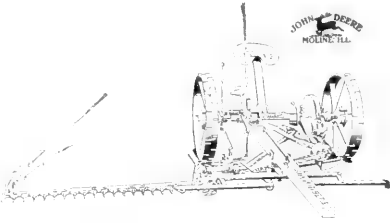
Built with greater power, greater fuel economy to give greater value. The new Model "A" pulls three 14 inch plow bottoms under average soil conditions in second gear or two 16 inch plow bottoms in second or third gear.

Prices on application.

While John Deere Tractors have always been famous for their simple, positive, safe, and easy starting in all kinds of weather, there are farmers who prefer a self-starter and who want battery-generator lighting equipment.

To meet this demand we offer electric starting and lighting equipment for John Deere Models "L", "LA", "A" and "B" tractors.

## The John Deere Enclosed Gear Mower

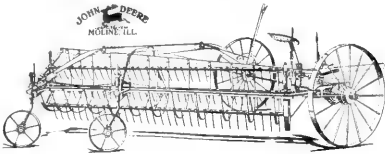


The high lift mower that oils itself. Six quarts of oil in the gear case and one pint of oil in each wheel-hub chamber provide ample lubrication for the average season's cutting.

Made in 4½, 5, 6 and 7 foot sizes.

Prices on application.

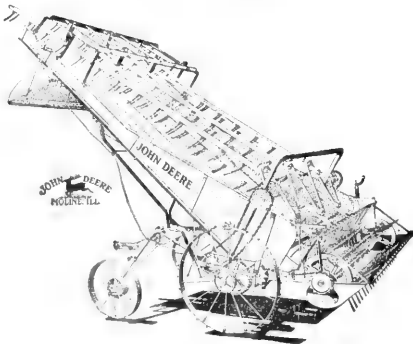
## New John Deere Side-Delivery Rake



This is the latest development in side-delivery rake construction. Its floating cylinder and universal joint drive cause the hay to be "floated" gently into loose, fluffy windrows, leaves inside, stems out. It makes the John Deere Way of Making Hay of even greater value to the hay grower which means a better quality of hay and bigger profits.

Price on application.

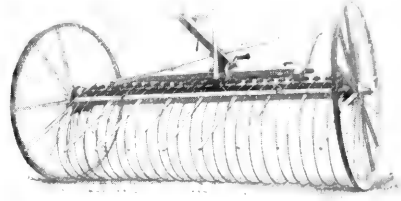
## John Deere Raker Bar-Cylinder Hay Loader



Is a dependable loader with floating cylinder, automatic capacity adjustment, and other features that mean good work.

Price on application.

## "Eddy Yankee" Horserake

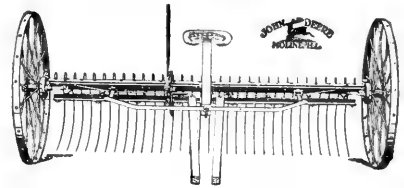


Strength, durability, ease of operation, and clean raking qualities are some of the features that have made this type rake the favorite in the New England States.

8 ft. with 25 teeth; 10 ft. with 31 teeth

Prices on application.

## New John Deere—Steel Sulky Rake



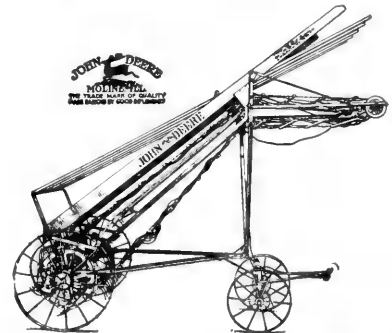
The rake that gives years of service. Wheels interchangeable, and dump rods reversible, giving extra wear without repair expense. There is no hay too heavy or too light for the John Deere Sulky Rake. It will do the kind of work desired under all conditions.

8 ft. with 24 teeth; 9 ft. with 28 teeth;

10 ft. with 32 teeth.

Prices on application.

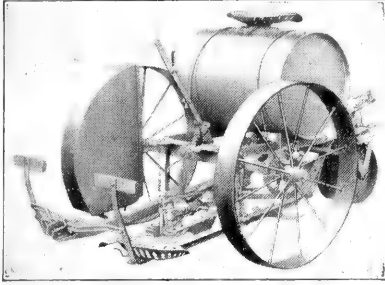
## John Deere Single-Cylinder Windrow Hay Loader



Very light draft and minimum number of working parts. Single drum mounted directly on the axle. Hinged carrier makes loading easy in windy weather. Furnished regularly with fore-carriage—no lifting is necessary when coupling to wagon. Extra strong, well braced frame with hot-riveted corner plates. Gets all the hay when properly raked into windrows. Handles alfalfa and clover without knocking off valuable foliage parts. Capacity ample for all side-rake windrows. Made in six foot width with fore-carriage.

Price on application.

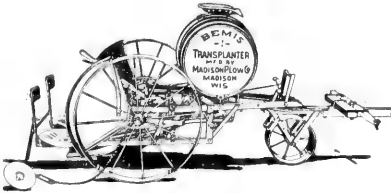
## New Improved Tiger Transplanter



The lifting lever works on an eccentric. A child can lift the weight of two men and when the lever is operated it automatically throws machine out of gear. Simply and strongly made with these new improvements this machine is rapidly coming into favor with discriminating buyers. This machine has  $1\frac{1}{4}$  inch water connections. The flow of water is under perfect control and can be regulated to deposit as small a quantity as desired, or to discharge one pint to each plant.

Price on application.

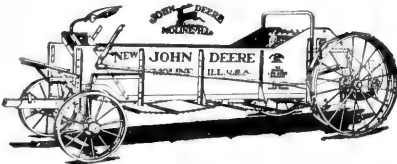
## Bemis Transplanter



Thirty-five years of practical experience is embodied in the Bemis. Nearly every tobacco farm in the Connecticut Valley is equipped with one or more of these implements.

Price on application.

## New Improved John Deere Spreader



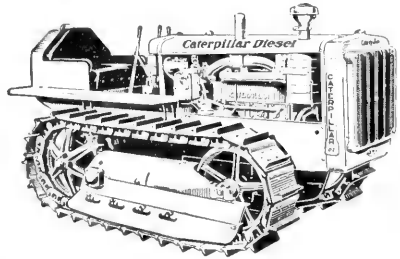
Has a tight bottom, with the beater on the axle and cushion-spring front bolster construction. Low, easy, loading box, is only hip high. High drive wheels, roller bearings on all three beaters, new type non-wrapping spiral beater, non-wrapping four-bar upper beater, and fewer moving parts assure light draft.

Price on application.

## CATERPILLAR

REG. U. S. PAT. OFF.

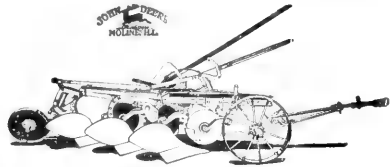
### Diesel D-2 Tractor



Here is a 3-4 plow tractor, powered by a full Diesel engine with 25 drawbar horsepower, designed for a multitude of uses—equipped with a convenient hand clutch—5 properly-spaced, usable speeds. Ask for a demonstration.

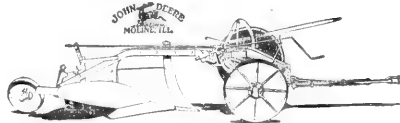
**Caterpillar R2 Tractor**—Same size and capacity as D2 at a lower price with choice of engine that operates on low-price tractor fuel or gasoline. Prices on application.

## John Deere Tractor Plows



For use with Caterpillar tractors No. 5 and 6 plows are leaders. Sizes 3, 4 and 5 bottom with 12-14 or 16-inch bottoms.

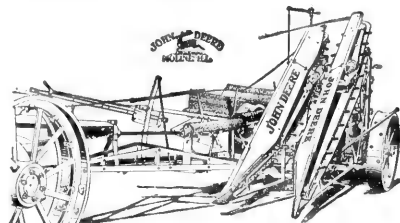
Prices on application.



**No. 11 Grub Breaker.** Will reduce the cost of converting waste brush, bog, and swamp land into crop producing, profit-making farm acreage.

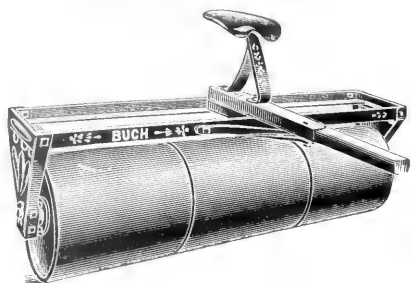
Price on application.

## John Deere Power Corn Binder



Can be used with practically any make of tractor. Is built to stand the hardest service in any field condition. Cut-steel main drive gears are fully enclosed and run in oil. Price on application.

## Steel Land Roller



Drums of No. 12 gauge High Carbon Steel with Closed Pressed Steel Heads. Angle Frame—High Carbon Steel—3 x 3 x  $\frac{5}{16}$  inches.

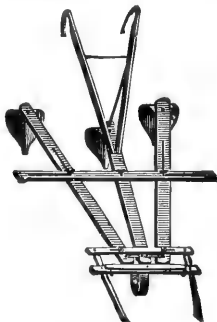
Axles—1 $\frac{1}{2}$  inch round.

Hangers—Heavy Wrought Steel with Hardwood boxings.

Built in two or three sections. Tractor hitch furnished if desired. Length 8 feet. Diameter of drum 24 inches. Weight 535 lbs.

Price on application.

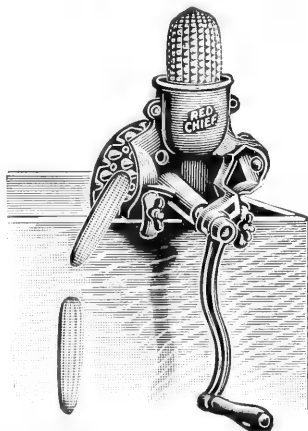
## Goslee Imp. Field Marker



Is designed to mark out rows any width for any crops grown in rows. Teeth are adjustable to any size and depth drill.

Price on application.

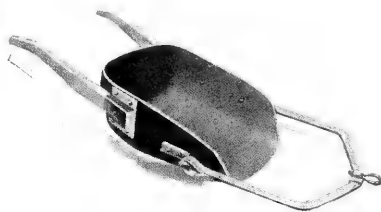
## Red Chief Corn Sheller



Substantial but low priced, made of iron, painted red. Can be attached to a barrel or box, adjustable for large or small ears.

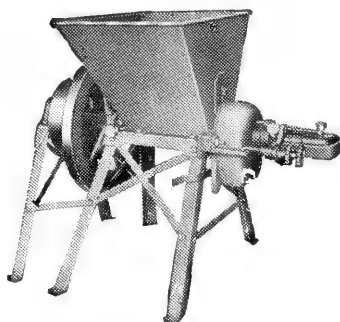
Price \$2.25 Net

## Steel Drag Scrapers



No. 3	Banner	3 Cubic Feet Capacity	\$10.45 Net
No. 2	"	5 " " "	11.40 Net
No. 1	"	7 " " "	12.35 Net

## Jumbo Feed Mill



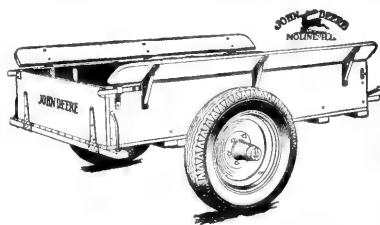
Is designed to work with tractor and engines from eight horse-power to thirty horse-power. You may operate it at 1500 revolutions per minute. and it will give good, dependable service, grinding 110 bushels of cob meal an hour.

The seven ball end thrust bearing easily absorbs the entire end thrust of the mill when running at this speed.

The two spout bagging elevator will attach easily and quickly. Feed is automatically diverted to other spout when one bag and spout are filled.

Prices on application.

John Deere No. 20 Trailer Cart is built for the man



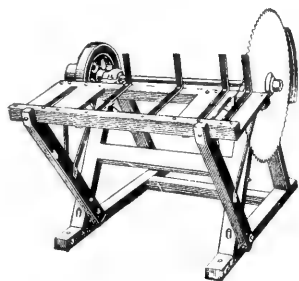
who wants a strong, simple, smooth-running two-wheel trailer that will haul loads up to 2000 lbs. at rapid speeds. This trailer will outlast

several of the homemade, make-shift type, besides giving its owner greater capacity and greater safety when traveling at high speed.

Price on application.



## Buch Saw Frames

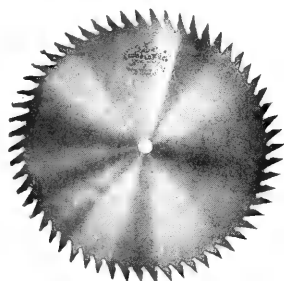


No. 5. With Tilting Table. Built especially for sawing cord wood. Mandrel of finest cold rolled steel  $1\frac{7}{8}$  in. dia., 52 in. long—fitted for saw with  $1\frac{3}{8}$  in. hole. Flywheel is accurately machined and carefully balanced,  $15\frac{1}{2}$  in. dia., weight 65 lbs. Standard pulley size 6 x 6 in.

Can be furnished without flywheel.

Prices on application.

## Guaranteed Cord-Wood Saws



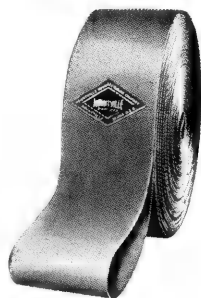
Always run the saw at proper speed, too high or too low is equally bad.

Dia.	No. teeth	Speed	Price
20 in.	52	1800	<b>\$3.50</b>
22 in.	56	1636	<b>4.00</b>
24 in.	60	1500	<b>4.50</b>
26 in.	64	1384	<b>5.00</b>
28 in.	68	1285	<b>5.75</b>
30 in.	70	1200	<b>6.50</b>
32 in.	72	1150	<b>7.50</b>

## Mountville Red Rubber Belting

For Industrial and Agricultural Machinery

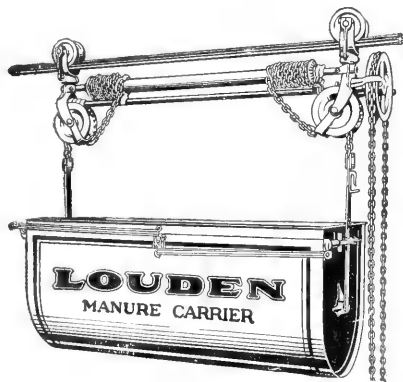
Good belting plays an important part in the successful operation of any kind of power machinery.



Mountville Red Rubber Belting is made of 32 ounce duck and a high grade rubber compound which prevents its being affected by moisture. Stretching and shrinking are reduced to a minimum, and it remains flexible winter and summer. No breaking-in is necessary and its modern friction surface construction enables it to pull a full load without excessive tension.

Prices on application.

## The Louden Litter Carrier



We believe this to be by far the greatest litter carrier ever built. Made to handle heavy loads of wet manure easily, safely and for many years.

Tub is water tight, full 12-bushel capacity. The worm gear hoist on this Louden Carrier is built on the same principle as the highest industrial hoists. It is far superior to the dangerous, troublesome brake and ratchet type.

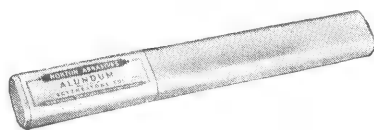
Load hangs squarely under the track with minimum wear on trolleys. Roller bearing wheels. Sturdy steel track, good for a lifetime. Tub trips from either end. In every respect a quality carrier.

Price on application.

## Norton Pike Scythestones

Famous old brands which have given service to generations of users.

Granger No. TS4— $10'' \times 1\frac{1}{4}'' \times \frac{3}{4}''$	<b>10c</b>
Green Mountain No. TL10— $10'' \times 1\frac{1}{4}'' \times \frac{1}{2}''$	<b>15c</b>



Alundum No. TD2— $10'' \times 1\frac{5}{6}'' \times \frac{1}{2}''$	<b>20c</b>
Alundum No. TD1— $10'' \times 1\frac{1}{4}'' \times \frac{3}{4}''$	<b>25c</b>



Crystolon No. TJ2— $10'' \times 1'' \times \frac{5}{8}''$	<b>25c</b>
Crystolon No. TJ3— $10'' \times 1\frac{1}{4}'' \times \frac{3}{4}''$	<b>30c</b>
Sir Pike No. N14— $12'' \times 1\frac{5}{8}''$	<b>35c</b>
Crystolon Utility File No. JD2	<b>\$1.00</b>

## Mandrel Sets

For those who wish to build their own Saw Frames.

Length	Arbor	Pulley	Fly Wheel	Price
41 in.	$1\frac{3}{8}$ in.	5 x 5 in.	30 lb.	<b>\$12.50</b>
50 in.	$1\frac{3}{8}$ in.	6 x 6 in.	50 lb.	<b>14.75</b>
41 in.	$1\frac{3}{8}$ in.	5 x 5 in.	...	<b>8.00</b>
50 in.	$1\frac{3}{8}$ in.	6 x 6 in.	...	<b>8.50</b>

## Rex Grindstones



The journals are of the improved hardened steel ball and race type of specially treated steel. Frame which is securely braced and bolted is made of well-seasoned hardwood.

No. 20 size 20 in. dia. by 2 in. to  $2\frac{1}{4}$  in. face  
**Price \$11.00** **Net Cash Price \$10.45**

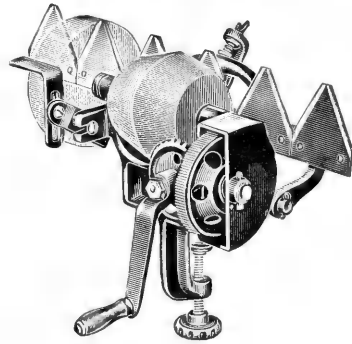
No. 24 size 24 in. dia. by  $2\frac{1}{4}$  in. to  $2\frac{1}{2}$  in. face  
**Price \$12.50** **Net Cash Price \$11.88**

No. 26 size 26 in. dia. by  $2\frac{1}{2}$  in. face.  
**Price \$13.25** **Net Cash Price \$12.59**

No. 28 size 28 in. dia. by  $2\frac{1}{2}$  in. face  
**Price \$14.00** **Net Cash Price \$13.30**

Power pulley 10 in. dia.  $2\frac{1}{2}$  in. face  
**Net Price \$2.00**

## Modern Grinders



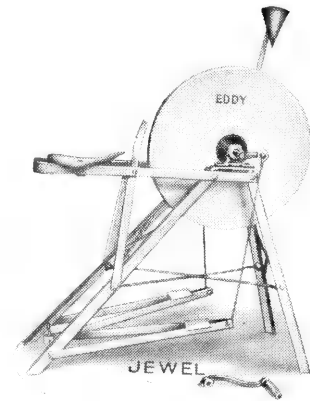
Model G. Machine cut drive gears enclosed. Can be clamped to mower wheel.

**Net Price \$9.50**

Model MX No. 3. A high grade, low priced sickle grinder.

**Net Price \$5.90**

## Ejecto Water Systems



## Jewel Grindstones

This stone comes equipped with two pedals, adjustable seat, crank and drip cup.

No. 22 size 22 in. dia. by 2 in. to  $2\frac{1}{4}$  in. face  
**Price \$13.50** **Net Cash Price \$12.83**

No. 24 size 24 in. dia. by  $2\frac{1}{4}$  in. to  $2\frac{1}{2}$  in. face  
**Price \$14.50** **Net Cash Price \$13.78**

The Myers Ejecto Pump does not have to be installed directly over the well, but may be installed at any convenient location such as in the basement away from the well.

This feature is particularly desirable in cold climates where it is necessary to have the pump in a frost proof house. The off-set installation eliminates expensive frost-proof pit and puts the pump where it is accessible for regulating or repairing when necessary.

Prices on application.





### Myers Cog Gear House Force Pump

With three-inch seamless drawn brass cylinder, plain brass valve seat and hinged check valve.

No. R414. Price \$8.00

Net Cash Price \$7.60

### Myers Cog Gear Pitcher Pump

Fitted with brass valve seat. Long stroke. Large capacity. More water with 33 1/3% less power required to operate.

No. R416. Price \$5.00

Net Cash Price \$4.75



### Myers Cog Gear Submerged Cylinder Double Acting Force Pump

For use in drilled or open wells up to 150 feet in depth. Anti-freezing. No. R72 as shown, with brass lined lower cylinder. Price \$21.75.

Net Cash Price \$20.67

### Myers Cog Gear Pump

Anti-freezing, with brass lined cylinder. Can be used on deep wells.

No. R1052. Price \$13.75

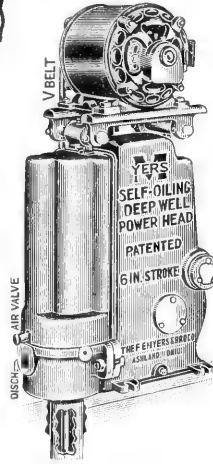
Net Cash Price \$13.07

No. R1058 same as above except has polished iron cylinder. Price \$10.75.

Net Cash Price \$10.22



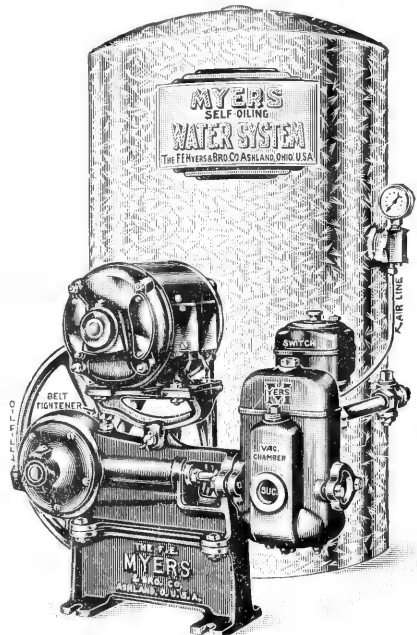
Myers Self-Oiling Deep Well Power Pumps are neatly designed, attractively finished, compactly built and mechanically correct. Their ease of installation and simplicity and accessibility of all working parts have made them popular for deep well service.



If your source of water supply lies beyond the depth of an ordinary shallow well pump, and you contemplate the installation of a water system for your home, farm, country estate, or for any other purpose, you will appreciate the high quality and many splendid Myers features which are responsible for the expression "Myers leads the world in perfect water service."

Prices on application.

### Myers Self-Oiling Shallow Well Water System



Complete automatic control. No personal attention necessary. Designed for operation from any kind of city current or from farm lighting and power systems. For use in cisterns or shallow wells up to 22 feet to low water level. Capacity 250 gallons per hour. No. 1906AT. Price \$78.00.

Net Cash Price \$74.10

SEND FOR OUR COMPLETE CATALOG OF PUMPS AND WATER SYSTEMS.



That's the beauty of **BPS Paint Products**—a finish for every purpose, paint, enamel, stain or varnish—colors to delight any taste—economy to suit any purse—and results that satisfy the most particular.



*Whether you want to enamel a table or paint a barn, we have the BPS finish for it.*

### Rutland Asphalt Paint

The finest and most durable asphalt known. Dries quickly leaving a hard, glossy, black finish.

1 gal. can \$1.25



2½ lb. pkg.	.25
5 lb. pkg.	.40
8 lb. pkg.	.60
15 lb. pkg.	.75

### Rutland Roof Cement

No. 4 BLACK	
1 lb. can	\$ .20
5 lb. can	.65
10 lb. pail	1.10
25 lb. pail	2.25
50 lb. pail	4.00
100 lb. drum	7.00



### Rutland Asphalt and Asbestos Roof Coating

Is for repairing and renewing old roofs. Will work equally well on metal, paper, or composition roofs.

It also is used for waterproofing the outside of foundation walls.

1 gal. can	\$ .75	5 gal. can	\$3.00
25 gal. can	13.50	50 gal. bbl.	22.00

### Protect your Property- Re-Roof Now!



**A**ND when you re-roof, be sure that you buy the material which will insure the best appearance and longest wear. You can do so by choosing Carey Shingles or Roll Roofings, for these high quality products are the result of 60 years of experience.

We'll save you money on exactly the right roof for your needs—let's talk it over.



**Carey**  
ROOFINGS  
AND SHINGLES

### Rutland Black Roof Paint

Is a fibreless asphalt paint. It does not contain coal tar.

1 gal. can	\$ .75
5 gal. can	3.00
25 gal. can	13.50
50 gal. bbl.	22.00



## Long Three-Tine Hay Forks



**True Temper Brand First Quality Plain Ferrule**

4 ft. handle	No. 134B	13 in. tine	\$1.25
4½ ft. handle	No. 134½B	13 in. tine	1.35
5 ft. handle	No. 145	14 in. tine	1.50

**True Temper Brand First Quality Strap Ferrule**

4 ft. handle	No. 0134B	13 in. tine	\$1.50
4½ ft. handle	No. 0134½B	13 in. tine	1.60
5 ft. handle	No. 0145B	14 in. tine	1.75
5½ ft. handle	No. 0145½B	14 in. tine	1.85
6 ft. handle	No. 0146B	14 in. tine	2.00

**10% Discount in Dozen Lots.**

## Manure Forks

**True Temper Brand First Quality**



4 Tine	5 Tine	6 Tine
	Long Handle Strap Ferrule	
\$1.60	\$1.80	\$2.00
	Mal. D. Handle Strap Ferrule	
\$1.65	\$1.90	\$2.10

## Steel Manure Hooks

**True Temper Brand First Quality**

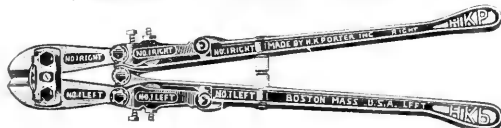
**Bent Head—Oval Tines**

4 tine	5 ft. handle	\$1.35
5 tine	5 ft. handle	1.60

## Standard Wedges



4 lbs. 40c    5 lbs. 50c    6 lbs. 60c



Porter Bolt Clippers. Have for more than half a century been the standard.

Prices on application.

## Cutter Mattocks



5 lb. 80c

6 lb. 85c

## Pick Mattocks



5 lb. 85c

6 lb. 90c

## Railroad Picks



6 lb. 80c

7 lb. 90c

8 lb. \$1.00



## Grub Hoes

4 in. wide    \$1.00



## Axes

\$1.50

\$1.75

\$2.00

\$2.50



Axe Handles 25c, 35c, 40c, 50c, 60c  
Mattock and Pick Handles, 30c, 40c, 50c

## Three Power Forester



No. 1—20" long. Capacity 1⅜ in. Especially designed for the fruit grower.

**Price \$4.25**

No. 2—27" long. Capacity 1½ in. Suitable for forest priming, brush and shrub cutting.

**Price \$5.50**

No. 3—34" long. Capacity 2 in. An amazingly powerful tool.

**Price \$7.00**

### True Temper Brand Grade A Tobacco Hoes



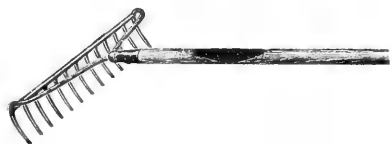
8" x2 <sup>5</sup> / <sub>8</sub> "	\$1.35	9 <sup>1</sup> / <sub>2</sub> " x2 <sup>1</sup> / <sub>2</sub> "	\$1.50
8 <sup>1</sup> / <sub>2</sub> " x2 <sup>3</sup> / <sub>4</sub> "	1.40	10" x2 <sup>1</sup> / <sub>2</sub> "	1.55
9" x2 <sup>3</sup> / <sub>4</sub> "	1.45	11" x2 <sup>1</sup> / <sub>2</sub> "	1.75

10% discount in dozen lots.

### True Temper Brand Field of Garden Hoes

8" x3 <sup>3</sup> / <sub>4</sub> "	\$1.25	9" x3 <sup>3</sup> / <sub>4</sub> "	\$1.35
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### Steel Garden Rakes



14 teeth 70c to \$1.15

16 teeth 80c to \$1.25

### True Temper Brand Spading Forks



#### Strap Ferrule

4 tine	Long Handle	\$1.60
4 tine	Mal. D Handle	1.60
5 tine	Long Handle	2.25
5 tine	Mal. D Handle	2.25

### Coal Scoops

No. 4 Hollow Back Split D Handle	1.50
No. 5 Hollow Back Split D Handle	1.55
No. 6 Hollow Back Split D Handle	1.60
No. 7 Hollow Back Split D Handle	1.65

### Full Polish Round Point Shovels



Fox Brand Plain Back No. 2	\$1.75 each
Fox Brand Plain Back No. 3	1.85 each

Square point—same price

### Black Round Point Shovels

Fox Brand No. 2	\$1.55
Fox Brand No. 3	1.65
McCarr Brand No. 2	1.25
McCarr Brand No. 3	1.30

### Full Polish No. 2 Garden Spade, \$1.85



Fox Brand No. 2 Black Spade	\$1.60
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### Snow or Barn Shovels



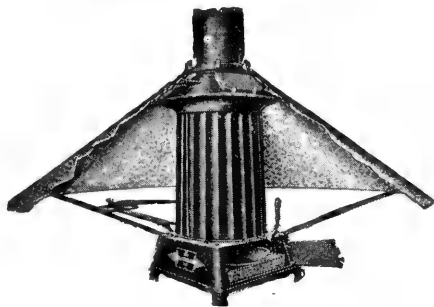
No. 2	Long Handle	65c
No. 2	Steel D Handle	75c
No. 2	Split D Handle	75c

### Flat Top Turf Edger



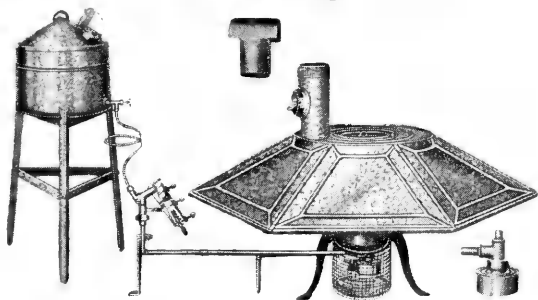
Long Handle	\$1.00
Mal. D Handle	1.10

## Hudson Coal Brooders



Square base and ashpit of greater capacity. New type coal door hinge, eliminating binding or poor fit.

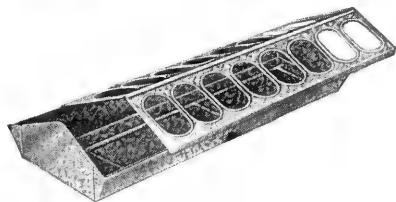
## Hudson Oil Burning Brooders



The secret of the success of the Hudson Stove rests in the perfectly functioning valve and powerful specially designed burner which is so efficient that it will burn equally well kerosene or cheap fuel oil (distillate).

Sizes from 200 to 1500 day old chicks.

## Slide Top Chick Feeders



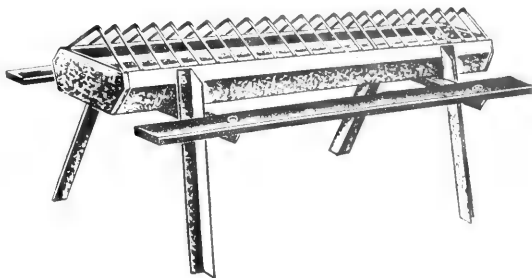
These popular priced feeders are made of galvanized steel. Die stamped.

## Leads-All Chick Feeders



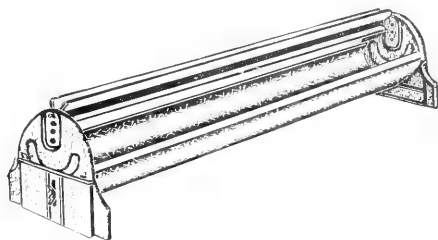
Is not the conventional type of small, low-priced feeder. Die-formed from heavy galvanized steel, with feed-saving lip curved for chick safety and feed economy.

## Range Feeder with Grill Type Guard



Hinged to permit easy cleaning and filling  
4 ft. Feeder (with perch and legs).  
5 ft. Feeder (with perch and legs).

## Chick and Broiler Feeder

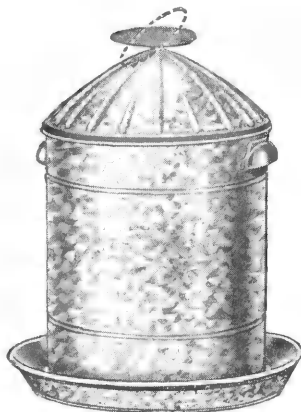
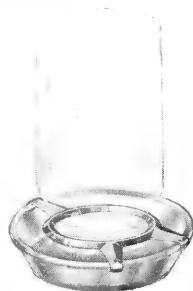


Reel is designed to take care of chicks from one day old to well past the broiler state. For small chicks, feeder stands are adjusted so that feeder bottom is near the ground and reel is in low position. Feeder may be raised by stand adjustment from week to week, as chicks grow, until its maximum height of  $2\frac{3}{4}$  inches has been reached. With the feeder and the reel at top position this is an ideal feeder for broilers. Feeder trough  $2\frac{1}{4}$  in. deep, 4 in. wide at bottom,  $4\frac{3}{4}$  in. wide at top with  $\frac{3}{4}$  in. feed-saving lip.

No. 536 FEEDER Length 36 in.  
No. 548 FEEDER Length 48 in.

## CHICK FOUNTAINS

Mason Jar Types.



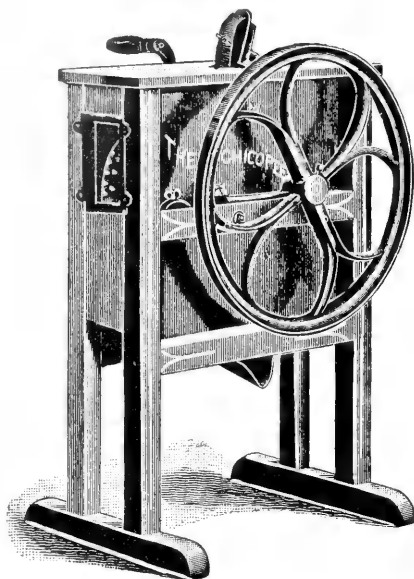
## Double Wall Fountains

Top filled Feeds automatically.

Sizes 5 and 8 gallons.

Special prices on all poultry equipment to close out

## Corn Shellers



**Chicopee**—One Hole—hand (as shown).  
 Price \$10.00 Net Cash Price \$9.50  
**Chicopee**—Two hole—power.  
 Price \$22.50 Net Cash Price \$21.37



**Clipmaster**  
 No. 51 Price \$19.95  
 Net cash price \$19.00

### FOR COWS, HORSES, MULES, DOGS

New STEWART Clipmaster with ball-bearing, air-cooled motor inside composition handle. Fully insulated—no ground wire to bother with. 78% more power makes this new Clipmaster by far the finest, fastest, and easiest clipping machine ever built.



## John Deere Hammer Mill

Does an excellent job of preparing feed at remarkable low cost, and its big capacity with a minimum of power consumption is a surprise to every farmer who has seen it in operation.

Prices on application.

## Atlantic Motor Oils

You've heard of the new exclusive process developed by the Atlantic Refining Company. In giving its Motor Oil this amazing High Film Strength (greater even than pure castor oil) Atlantic has made the greatest improvement since the invention of the automobile. High Film Strength (only Atlantic Motor Oils have it) keeps your motor young; the strong film of Atlantic Oil keeps engine surfaces apart and prevents the costly metal to metal contact that leads only to one sad end—new piston rings or other expensive repairs. In preventing what was up to now normal wear Atlantic High Film Strength Motor Oils not only help you save money on repair bills but will retain new car performance.

Give it a real trial. We know the correct grade for your automobile, tractor or farming equipment.

Atlantic High Film Strength Motor Oils cost no more than out-of-date motor oils.

**KEEP UPKEEP DOWN**

1 gallon and 5 gallon cans

30 gallon and 50 gallon drums.

Prices on application.

**THE Modern Answer TO DRAINAGE PROBLEMS**

**MYERS CENTRIFUGAL SUMP PUMPS**

For keeping cellars and basements perfectly drained at all times. Consists of silent centrifugal pump, operated by electric motor. Absolutely dependable and entirely automatic in action. Starts whenever water enters drain pit or sump. Stops when water has been pumped out. Low in cost; easily installed. Ask us about them.



## ATKINS SILVER STEEL PRUNING SAWS

### No. 13 Curved Pruner



The blade is peg tooth of uniform temper, noted for its edge holding qualities.

Length 14"

Price \$1.65

### Utility Speed Pruner



The curve in this pruner gives correct stroke for an easy full cut. Diamond point teeth and raker quickly cleans the cut.

No. 141—Length 26"

Price \$4.25

### No. 16 "AAA" Pole Tree Pruner



Fitted with peg teeth and fastened to casting with bolt and wing nuts. The blade is adjustable to cut at any angle.

Length 16"

Price \$2.50

### No. 3 Duplex Pruner



One edge for extra heavy coarse work. teeth on opposite edge for finer cutting. The handle is of well seasoned apple wood.

Length 20" \$1.85

### No. 11 Tapered Pruner



Frame is made of high grade crucible steel  $\frac{3}{4}$ " wide. Blade can be adjusted to any angle.

Length 18"

Price \$2.50

### No. 40 Tuttle Tooth Pruner



Made of high grade special steel. Teeth hold their edge longer due to extra fine temper. Large and roomy grip reinforced with dowel pin making it rigid.

Length 24" \$3.50

Atkins Silver Steel segment ground crosscut saws are manufactured with utmost care to insure quality of material and workmanship. Each saw is thoroughly inspected before shipment.

## One Man Cross Cut Saws



No. 090—Tuttle Tooth. Hardwood handle, easy grip.

Price 3 ft. \$2.85

3½ ft. \$3.25

No. 390—Special Steel Blade taper ground 2 Gauges thin back. It is finely finished to run free and easy, hard wood easy grip handle.

Tuttle Tooth—Price 3 ft. \$3.75

3½ ft. \$4.25

## Two Man Cross Cut Saws

No. 079—Economy. Suitable for cutting either soft or hard wood.

Price: 5 ft. \$2.50

5½ ft. \$2.75

No. 388—Hollow Back Forester. Is made of special steel and ground thin back for easy clearance.

Price: 5 ft. \$4.75

5½ ft. \$5.10

No. 331—Tuttle tooth. The most popular medium priced saw on the market today. Made of special steel and designed principally for general utility work.

Price: 5 ft. \$6.00

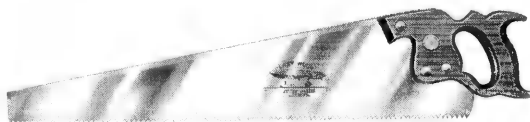
5½ ft. \$6.50

No. 9—Forester Segment ground, superfine in every way. Hand-smithed blades; perfect temper; expert workmanship. The fastest and smoothest cutting saw ever made and needs very little filing.

Price: 5 ft. \$8.00

5½ ft. \$9.00

## "Last Word" Hand Saw No. 58



A guaranteed moderately priced straight back saw for general use. New style easy grip handle.

Length 26"

7 or 8 point

Price \$2.00



# Seed and Plant Tables

## Quantity of Seeds Required to Plant One Acre

Asparagus—1 oz. for 500 plants.	1	lb.
Barley.	2	bu.
Beans, Dwarf, 1 qt. for 100 ft. of drill	1-1½	bu.
Beans, Pole, 1 qt. for 200 hills	½ to ¾	bu.
Beet, Garden, 1 oz. for 75 ft. of drill	6	lbs.
Beet Mangel, 1 oz. for 75 ft. of drill	5	lbs.
Buckwheat	1	bu.
Cabbage, 1 oz. for 3,000 plants	½	lb.
Carrot, 1 oz. for 150 ft. of drill	2½-3	lbs.
Cauliflower, 1 oz. for 3,000 plants	5	oz.
Celery, 1 oz. for 4,000 plants	4-8	oz.
Clover, Alsike or White Dutch	8-10	lbs.
Clover, Medium Red	10-15	lbs.
Corn, Field (Hills)	¾ to 1½	bu.
Corn, Field (Drills)	1-1½	bu.
Corn, Sweet, 1 qt. for 200 hills	8	qts.
Cucumber, 1 oz. for 50 hills	2-3	lbs.
Fesque Chewings	30	lbs.
Grass, Kentucky Blue	1½-2	bu.
Grass, Rye	1-1½	bu.
Grass, Mixed Lawn	3-4	bu.
Grass, Orchard	1½-2	bu.
Lettuce, 1 oz. for 150 ft. of drill	3	lbs.
Melon, Musk, 1 oz. for 80 hills	3	lbs.
Melon, Water, 1 oz. for 50 hills	4	lbs.
Millet, Golden	¾-1	bu.
Millet, Hungarian	¾-1	bu.
Millet, Japanese	½ to ¾	bu.
Oats	2-2½	bu.
Onion Seed, 1 oz. for 200 ft. of drill	5	lbs.
Onion Seed for Sets	30-50	lbs.
Onion Sets—1 qt. for 20 ft. of drill	8	bu.
Parsnip, 1 oz. for 100 ft. of drill	4	lbs.
Parsley, 1 oz. for 200 ft. of drill	3	lbs.
Peas, Garden, 1 qt. for 60 ft. of drill	3	bu.
Peas, Field	2½	bu.
Potatoes	12	bu.
Pumpkin, 1 qt. for 200 hills	5	lbs.
Radish, 1 oz. for 100 ft. of drill	10	lbs.
Red Top, Unhulled	2-3	bu.
Red Top, Recleaned	15	lbs.
Rye	2	bu.
Salsify, 1 oz. for 100 ft. of drill	8	lbs.
Squash, Summer, 1 oz. for 30 hills	2	lbs.
Squash, Winter, 1 oz. for 10 hills	2	lbs.
Timothy	¾ to 1½	bu.
Tomato, 1 oz. for 3,000 plants	3	oz.
Tobacco, 1 oz. for 5,000 plants	2	oz.
Turnip, 1 oz. for 200 ft. of drill	1-3	lbs.

## Weights of Seeds

	Lbs. per Bu.
Alfalfa	60
Barley	48
Blue Grass	14
Buckwheat	48
Clover, Alsike, Crimson, Red, White	60
Corn, Field	56
Fesque Chewings	24
Millet, Common	48
Millet, Hungarian	48
Millet, Japanese	32
Oats	32
Orchard Grass	14
Peas, Canada Field	60
Rape	60
Red Top, Unhulled	14
Red Top, Recleaned	35
Rye	56
Soy Beans	60
Sudan Grass	50
Timothy	45
Vetch	60
Wheat	60

## AVERAGE TIME REQUIRED FOR GARDEN SEEDS TO GERMINATE

	Days		Days
Beans	7-10	Lettuce	6-8
Beets	7-10	Onion	7-10
Cabbage	4-8	Parsley	15-21
Carrot	12-18	Peas	6-10
Cauliflower	4-8	Parsnip	10-20
Celery	10-20	Pepper	9-14
Corn	5-8	Radish	4-6
Cucumber	6-10	Salsify	7-12
Endive	5-10	Tomato	10-14
Kale	5-7	Turnip	4-8

## MATURITY TABLE

Beans, table use	50 to 65 days
Beets, table use	60 to 70 days
Cabbages, early for cutting	90 to 100 days
Cabbages, late for cutting	100 to 120 days
Carrots, table use	60 to 70 days
Celery, table use	120 to 140 days
Sweet Corn, table use	85 to 100 days
Cucumbers, table use	65 to 70 days
Lettuce, table use	40 to 50 days
Melons, table use	85 to 100 days
Onions for Storage	90 to 120 days
Peas, table use	50 to 70 days
Radishes, table use	20 to 45 days
Tomatoes, table use	90 to 100 days
Turnips for Storage	65 to 90 days

## NUMBER OF PLANTS REQUIRED TO PLANT AN ACRE AT GIVEN DISTANCES

Dist. apart	No. Plants	Dist. apart	No. Plants
12 x 1 in.	522,720	36 x 36 in.	4,840
12 x 3 in.	174,240	42 x 12 in.	12,446
12 x 12 in.	43,560	42 x 24 in.	6,228
16 x 1 in.	392,040	42 x 36 in.	4,148
18 x 1 in.	348,480	48 x 12 in.	10,890
18 x 3 in.	116,160	48 x 19 in.	7,790
18 x 12 in.	23,040	48 x 24 in.	5,445
18 x 18 in.	19,360	48 x 30 in.	4,356
20 x 1 in.	313,635	48 x 36 in.	3,630
20 x 20 in.	15,681	48 x 48 in.	2,723
24 x 1 in.	251,360	60 x 36 in.	2,901
24 x 18 in.	15,520	60 x 48 in.	2,178
24 x 24 in.	10,890	60 x 60 in.	1,743
30 x 1 in.	209,088	8 x 1 ft.	5,445
30 x 6 in.	34,848	8 x 2 ft.	1,815
30 x 12 in.	17,424	8 x 8 ft.	680
30 x 16 in.	13,068	10 x 1 ft.	4,356
30 x 20 in.	10,454	10 x 6 ft.	725
30 x 24 in.	8,712	10 x 10 ft.	435
30 x 30 in.	6,970	12 x 1 ft.	3,630
36 x 3 in.	58,080	12 x 5 ft.	736
36 x 12 in.	14,520	12 x 12 ft.	302
36 x 18 in.	9,680	16 x 1 ft.	2,722
36 x 24 in.	7,260	16 x 16 ft.	170

## TABLE TO ASSIST FARMERS AND GARDENERS IN MAKING ACCURATE ESTIMATE OF THE AMOUNT OF LAND IN DIFFERENT FIELDS UNDER CULTIVATION

10 rods x 16 rods equal	1 acre
8 rods x 20 rods equal	1 acre
5 rods x 32 rods equal	1 acre
4 rods x 40 rods equal	1 acre
5 yards x 968 yards equal	1 acre
10 yards x 484 yards equal	1 acre
40 yards x 121 yards equal	1 acre
209 feet x 209 feet equal	1 acre
200 feet x 1-89 feet equal	¼ acre
100 feet x 145.2 feet equal	½ acre
100 feet x 108.9 feet equal	¾ acre

# COMMON MEASURES

## Long Measure

12	Inches	1	Foot
3	Feet	1	Yard
5½	Yards	1	Rod
320	Rods	1	Mile
1	Mile	5280	Feet

The following are also used:

1	Size	1-3	Inch
	(Used by shoemaker.)		
1	Hand	4	Inches
	(Used in measuring the height of horses.)		
1	Fathom	6	Feet
	(Used in measuring depths at sea.)		
1	Knot	1 15	Miles
	(Used in measuring distances at sea.)		

## Square Measure

144	Square Ins.	1	Square Ft.
9	Square Ft.	1	Square Yd.
30¼	Square Yds.	1	Square Rd.
160	Square Rds.	1	Acre
640	Acres	1	Square M.

An acre is equal to a square whose side is 208.71 feet.

## Surveyor's Square Measure

10,000	Square Links	1	Sq. Chain
10	Square Chains	1	Acre
10	Chains Square	10	Acres

## Surveyor's Linear Measure

7.92	Inches	1	Link
100	Links	1	Chain
80	Chains	1	Mile

Gunter's Chain is the unit and is 66 feet long.

## Dry Measure

2	Pints	1	Quart
8	Quarts	1	Peck
4	Pecks	1	Bushel

1 Bushel contains 2150.42 cubic inches or approximately 1¼ cubic feet.

## Liquid Measure

4	Gills	1	Pint
2	Pints	1	Quart
4	Quarts	1	Gallon

1 Gallon contains 231 cubic inches.

1 Cubic ft. equals 7½ gallons.

## Cubic Measure

1728	Cubic Inches	1	Cubic Ft.
27	Cubic Feet	1	Cubic Yd.
128	Cubic Feet	1	Cord

# BELTING POINTERS

## How To Find Length Required

When it is not convenient to measure with the taping, the length required, apply the following rule: Add the diameter of the two pulleys together, divide the result by 2, and multiply the quotient by 3¼; then add this product to twice the distance between the centers of the shafts, and you have the length required.

If possible to avoid it, connected shafts should never be placed one directly over the other, as in such case, the belt must be kept very tight to do the work.

It is desirable that the angle of the belt with the floor should not exceed 45 degrees. It is also desirable to locate the shafting and machinery so that belts should run off from each shaft in opposite directions, as this arrangement will relieve the bearings from the friction that would result when the belts all pull one way on the shaft.

## To Find the Belt Speed in Feet Per Minute

Multiply diameter of pulley in inches by 3.1416. This gives circumference of pulley, and this result multiplied by number of revolutions will give you belt speed in inches.

## Relative Transmission of H. P. for Any Given Width of Belt

The horse power for a given speed will be directly proportioned to the width of the belt; that is, a 4-ply belt, 16 inches wide, running at a certain speed, will transmit eight times as much power as a 4-ply belt 2 inches wide, running at the same speed, and a belt 100 inches wide, ten times as much as a 10-inch belt of the same thickness, running at the same speed, etc.

## To Find the H. P. That Any Given Belt Will Economically Transmit

Multiply the width of the belt in inches by its speed in feet and divide the result by 800. The final result will be the horse power for a 4-ply belt. For a 6-ply belt, divide this result by 600; for 8-ply, divide this result by 400; for 10-ply, divide this result by 350.

## To Find the Ply of a Belt of a Given Width Required

To economically transmit a given horse power

at a given belt speed, multiply the given horse power by 800 and the given width in inches by the given belt speed in feet, and divide the first result by the second.

If the final result is one, or nearly one, a 4-ply belt is required; if one and one-half, a 6-ply belt is required; if one and three-quarters to two, an 8-ply belt is required; if two to two and one-quarter, a 10-ply belt is required.

## To Find Width of Belt Required

To find the width of a 4-ply belt required economically to transmit a given horse power at a given belt speed per minute: Multiply the given horse power by 800, and divide the result by the given belt speed.

To find the width of a 6-ply belt required: Multiply the horse power by 600; divide the result by belt speed.

To find the width of an 8-ply belt required: Multiply horse power by 400; divide result by belt speed.

To find the width of a 10-ply belt required: Multiply horse power by 350; divide result by belt speed.

## To Find Speed and Diameter of Pulleys

The product of the diameter and speed of the driving pulleys equals the product of the diameter and speed of the driven pulley; consequently, if the speed and the diameter of the driving pulley are given, multiply them together and divide by the diameter of the driven pulley to find the speed of the driven; or divide by the speed of the driven pulley to find its diameter.

**Example**—The drive pulley on a tractor is 9½ inches in diameter and runs at 1,000 R. P. M.; what size pulley must be used on a thresher cylinder shaft that must run at 1,100 R. P. M.?

9½ times 1,000 equals 9,500; divided by 1,100, equals 8.64. Since pulleys are made only in certain standard diameters, use either the next size larger, 9-inch diameter, and raise the engine speed slightly, or use 8½ inch pulley, considering that the slight slippage will reduce the effective speed to the correct number of revolutions per minute.



